COUNTY:	FALL RIVER
LEGAL LOCATION:	<b>NENE 8-10S-4E</b>
API NO:	40 047 05154
PERMIT NO:	391
WELL NAME:	<b>TENNECO #1 USA-IDEEN</b>
<b>OPERATOR:</b>	<b>TENNECO OIL COMPANY</b>
PERMIT ISSUED:	06/15/1965
PERMIT CLOSED:	
FILE LOCATION:	10S-4E-8 NENE

TARGET CODES: WELL HISTORY / CHECKLIST PERMIT TO DRILL / INTENT TO DRILL WELL INSPECTION / SCOUT REPORTS OPERATOR'S TECHNICAL REPORTS / MAPS ADMINISTRATIVE / SUNDRY REPORTS CORRESPONDENCE MISCELLANEOUS

# WELL HISTORY / CHECKLIST

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### WELL HISTORY

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	Permit No.	391
ocation <u>NENE 8-105-4E - Fall River</u>	Date of Termit	6-15-65
lev 3501 Gr	API No.	<u></u>
Confidential From	То	
ogs Received		<u></u>
Outtings Received Cores		
Drill Stem Records		
Cap Plug and Marker Set7-30-65	****	
Surface Restored 7-30-65		
Plugging Affidavit Signed	Date	
Bond Released	Date	7-11-66
lummary of Scout Reports		
6-18-65 Eirst report		
6-18-65 First report 6-24-65 Spudded 6-23-65		
6-18-65 First report 6-24-65 Spudded 6-23-65 6-29-65 Plugged		
6-18-65   First report     6-24-65   Spudded 6-23-65     6-29-65   Plugged     7-8-65   Marker not set - Surface	plug not run	pits partially
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# PERMIT TO DRILL / INTENT TO DRILL

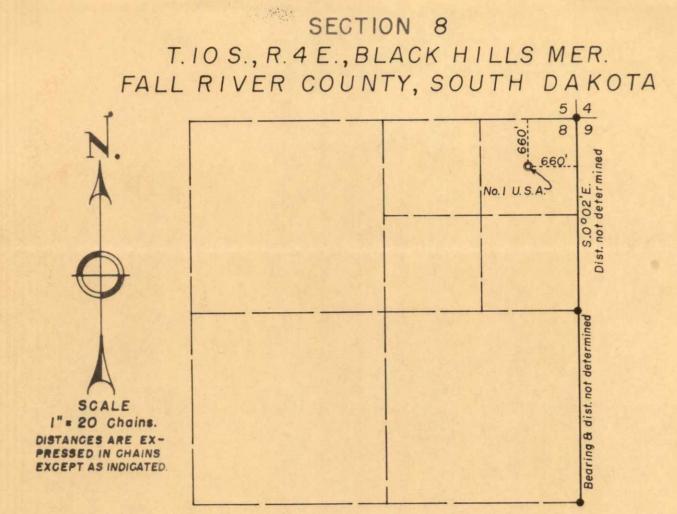
Year DEEPEN PLUG BAG   Year GAS WELL MULTIPLE   OFFERATOR Tenneco 0il Company MULTIPLE   ADDRESS P. 0. Box 1772, Casper, Wyoming MULTIPLE   LOCATION (In feet from an established corner of the legal subdivision.)* West   660' South and 660' XXXX of NE Corner of Section 8   NAME AND ADDRESS OF SURFACE OWNER ELEVATION   Marvin C. Kern 3501 - groun   Rumford, South Dakota 7500 DEPTH   NAME AND ADDRESS OF CONTRACTOR ELEVATION   Lewmont Drilling Associates, Inc. 1700 Broadway   Denver, Colorado PROPOSED CASING AND CEMENTING PROCE.   SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT   SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT   SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT   SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT   SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT   SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT   DESCRIBE PROPOSED OPERATIONS. IF PROPOSAL IS TO DEEPEN OF PLUE BACK, GRAND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOW OUT PREVENTER PROGRAM   We propose to drill a well at the above location to a	· □ DEEPEN □ PLUG B.		FARM OR	LEASE NAME
Image: Contractor Image: Contractor   OPERATOR Tenneco 0il Company   ADDRESS P. 0. Box 1772, Casper, Wyoming   LOCATION (In feet from an established corner of the legal subdivision.)* West   660' South and 660' XXXX of NE Corner of Section 8   NAME AND ADDRESS OF SURFACE OWNER ELEVATION   Marvin C. Kern 3501 - groun   Rumford, South Dakota PROPOSED DEPTH   NAME AND ADDRESS OF CONTRACTOR ELEVATION   Lewmont Drilling Associates, Inc. 1700 Broadway   Denver, Colorado If Lease PURCHASED WITH ANY WELLS DRILLED, FROM WHOM PURCHASED (Nameric Contractor)   Size OF HOLE Size OF CASING   NEW 7-7/8" 4-1/2"   9.5 <sup>#</sup> New   DESCRIBE PROPOSED OPERATIONS. IF PROPOSAL IS TO DEEPEN OF PLUG BACK, OF AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOW OUT PREVENTER PROGRAM   We propose to drill a well at the above location to a too the Leo Formation.   If productive, set 4-1/2" casing at 2700' and cement with fill 200' above the shallowest pay zone using 50/50 Poznt Completion Program: Run correlation log, perforate, tree	DEEPEN UPLOG B.	ACK	USA-I	deen
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SIGNED L.C. Bodemann, TITLE Dist. Prod. Supt.	C. Bodemann, F. TITLE Dist. Prod. Supt.	8	June_4	1965
permit NO. 391 CHECKED BY APPROVAL DATE 6-15-65	and the second	カ	19	P. JUN ,

#### INSTRUCTIONS

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started. If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations.

If the well is to be, or has been, directionally drilled, so state and show by attached sheets, if necessary, the coordinate location of the hole in any present or objective productive zones.

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# LEGEND

U.S.Governi	nent B	ass	Co	IP (	CO	rne	er.					 			ο,
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Iron pipe se	t at pro	por	tio	na	te	di	sto	n	.8				 	• •	
Corner estal	blished	1 by	ot	her	5	03	ind	lic	at	80	۱	 			
Dependent	Resur	vey									. :		 		-
Protraction															
Well locatio	n														0

#### ELEVATIONS: Before grading LOCATION 3501 R.P. 100'N 3501 R.P. 100'S 3496 R.P. 100'E 3501

R. P. 100'W

ELEV'S. REFERRED TO: U.S.G.S. VA 3490

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3498

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DESS TILLIAN

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#### SURVEY AND PLAT BY

WORTHINGTON, LENHART & ASSOCIATES, INC. 200 South Lowell St., Casper,Wyoming Direct solar lines and chained distances. Ref. Book No. 281, P. 8

PLATTED FIELD NOTES OF SURVEY MARKING WELL LOCATION NE1/4NE1/4, SECTION 8 FOR

TENNECO OIL CO., CASPER, WYOMING

Dated: 5 - 10 - 1965 Work Order No. 5 - 4 - B5

no success of

Certified true and correct, Surveyor. SOUTH DAKOTA REG. NO. 1255 L.S. STATE OIL AND GAS BOARD PIERRE, SOUTH DAKOTA JUNE 15, 1965

A special meeting of the State Qil and Gas Board was held on June 15, 1965, at 11:30 o'clock A. M., in the Office of the Secretary of State.

PRESENT: Nils A. Boe, Governor; Walter Weygint, Assistant Attorney General; Bernard Linn, Commissioner of School and Public Lands and Alma Larson, Secretary of State.

Governor Boe called the meeting to order.

Miss Larson, Secretary presented to the Board application to drill for oil from Tenneco Gil Company, P. Q. Box 1772, Casper, Wyoming, covering the #1 USA-Ideen Well located 660' South and 660' West of NE Corner of Section 8-T10S-R4E, Fall River County, South Dakota. Said well is covered by a Blanket Bond in the amount of \$20,000.00 executed by the United States Fidelity & Guaranty Company of Baltimore, Maryland, as Surety.

Mr. Linn, Commissioner of School and Public Lands, moved that this application be approved and Permit No. 391 be granted, which permit shall require Tenneco Oil Company to furnish to Dr. Duncan McGregor, State Geologist, free of charge, a complete set of cuttings and two sets of all records including Geophysical Logs and Drill Stem Tests.

Mr. Weygint, Assistant Attorney General, seconded the motion.

All voted "aye" and motion carried.

NILS A. BOE GOVERNOR ALMA LARSON SECRETARY OF STATE

# WELL INSPECTION / SCOUT REPORTS

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CONFIDENTIAL

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Permit No. 391

Date Scouted July 30, 1965

# STATE GEOLOGICAL SURVEY

#### Scout Report

Owner Tenneco				
Designation of well <u>#1_USA</u>	<b>I</b> yeen			
Location: Sec. 8	<b>T.</b> <u>10</u>	_M.S. R	4	E.W.
Fall River	County, S. D.	Total depth_	2765	feet
Casing Record:				
8 5/8 <u>225</u> <b>Ft.</b>	Ft.			
Ft.	Ft.	1 <del></del>		7
Work in progress at time of vis	it:		0	
None		┝╸╸╺┢╴╸╸╁╵		•
		<b>i</b> 8	i -+	-
Developments since last visit:		+	   	
Abandonment marker set.			1 1	
Pits filled and surface sm	oothed.			-

Remarks and recommendations:

Scouted by	Earl Cox, Geologist
Approved by	Duncan J. MoGregor, State Geologist

#### STATE GEOLOGICAL SURVEY

Scout Report

					Date	Scouted	July 8, 1	965
Owner	Te	nneco						
Designatic	on of well_	#1 US	A Ideen					
Location:	Sec.	8	т	10	N.S.	R	4	E.W.
	Fall River		County	, S. D.	Total	depth_		feet
Casing Red	cord:							
		Ft		Ft.				
		Ft		Ft.				1
Work in pr	ogress at t	ime of visit	:				0	
None						+-		-
						- 8		-
	2					1	1	
Developme	ents since	last visit:				+	+	-
None								

#### Remarks and recommendations:

Cat on location, location partially leveled, pits partially filled, but no one around. Surface plug not run, location marker not set. Loose cement for surface plug (?) lying on ground.

Scouted by	Robert Schoon, Geologist	-
Approved by	Duncan J. McGregor, State Geologist	•
	Duncan J. McGregor, State Geologist	

#### STATE GEOLOGICAL SURVEY

#### Scout Report

Date Scouted\_July 8, 1965

Owner	T	enneco	··					
Designatio	on of well	<b>#1 US</b>	A Ideen					
Location:								
	Fall Rive	<u>)r</u>	Count	y, S. D.	Total	depth	2765	feet
Casing Re	cord:							
		Ft		Ft.				
		Ft		Ft.	/ <del></del>			
Work in p	rogress at	time of visit	:				0	
None						+		
Developm	ents since	e last visit:				+		
None							ĺ	

Remarks and recommendations:

Cat on location, location partially leveled, pits partially filled, but no one around. Surface plug not run, location marker not set. Loose cement for surface plug (?) lying on ground.

Scouted by	Robert Schoon, Geologist	
Approved by	Duncan J. McGrégor, State Geologist	
white and main and ma	Duncan J. McGregor, State Geologist	

## STATE GEOLOGICAL SURVEY

Scout Report

Date Scouted June 29, 1965

Owner Tenneco Oil Company	ny					
Designation of well #1 U	SA Ideen				gerigen and the garget replaced	
Location: Sec. 8	т	10	N.S.	R	4	E.W.
Fall River	County,	S.D.				
Casing Record:			INC	ot from I	og - geo	lograph
Ft		Ft.				
Ft		Ft.	I			
Work in progress at time of visit	:				0	
Plugging hole				+		
				<b> </b>  - 8	i 	
_					i	
Developments since last visit:				+		
Drilled to T.D.					1	
			•••••••••••••••••••••••••••••••••••••••			
Remarks and recommendations:			Company	tops by	y Jack Boi	raette
Plug #1 2675-2600, 25 sacks #2 2175-2100, 25 sacks			Fall Rive Fuson 61	r 466	Min	nelusa 2070 Marker 2390
#3 1520-1430, 30 sacks			Morrison	900	100 10 10 10 10 10 10 10 10 10 10 10 10	ndtop 2730
#4  705– 640,25 sacks #5  275–200, 25 sacks (ba	se of surfa	ce)	Sundance Canyon S		1430	
#6 30- 0 10 sacks* *surface plug not runabandonm	ont markor	not	Spearfish	n 1514		
installedrig over hole	ent marker	not	Minneka Opeche 1		5	
Scouted by Robe	rt Schoon,	Geolo	gist	11.18.000 a to to - 8 a co		
	mant,	M?	Juno	U		
Duncan J.	McGregor	, State	Geologi	st		
	U		0			

## STATE GEOLOGICAL SURVEY

# Scout Report

		Date	Scouted	June 24	4, 1965
Owner Tenneco # USA Ideen					
Designation of well					
Location: Sec8 T10		N.S.	R	4	E.W
Fall River County,	S.D.	Total	depth		fee
Casing Record:					
face <u>225' - 8 5/8"</u> <b>Ft.</b> at <u>233 KB</u>	Ft.				
Ft.	Ft.		[		
Work in progress at time of visit:					
Drilling at 1460 as of 4 pm, June 24, 1965	5		+-		-
			8	 _	_
Developments since last visit:			+-	-4	_
Rigged up, spudded in 12:01 AM June 23, 1965, set surface 8:15 AM					
Remarks and recommendations: Expect to go to 2700 probably TD around	d 29th oi	r 30th			
TOPS: Fall River - 487 Fuson - 625 Lakota - 665 Sundance - 1100					
Scouted by Robert Schoon, Gen	ologist	r.ll.	go		
Approved by Duncan J. McGregor	, State G	eologist	you		10- <sup></sup>

FIRST REPORT

Permit No. 391

#### STATE GEOLOGICAL SURVEY

Scout Report

Date Scouted June 18, 1965

Owner Tenneco Oil Company	Υ		
Designation of well #1 USA	- Ideen		
Location: Sec. 8	<b>T.</b> 10	N.S. R. 4	E.W.
Fall River	County, S. D.	Total depth	feet
Casing Record:			
Ft	Ft.		
Ft	Ft.	r	
Work in progress at time of visit: By Phone:			_
Mo <b>v</b> ing in equipment Hope to spud June 18 or 19			
Developments since last visit:			_

Remarks and recommendations:

Scouted by	Earl Cox. Geologist	
Approved by	Alemant, M'Grean	
	Duncan J. McGregor, State Geologist	

Company logs by Tack Borgette

NENE- 8-105-4E Fall River Co. Sulface Ouron Marvin Kern. Rimford, S. Duk. Cartnate : Lowmant Drilling Co.

TRUNCLOFI USK-IDPN. 66054660 W OF NE Com

Est. T.S. 2700 Leos.

Elev 3502 91. 35-11 K.E. Pormit: June 15, 1965 # 391

Fall River 466 tream 610 900 Monicon Scendonce 1075-Congon Springs 1430 Spearfich 15-14 1795 Openhe 1834 ml 2070 Red marka 2390 Rountop(?) 073-0. T.D. - 2765 - Sullar 2767 logger Logs Ben Sonin log- gomme Kay Induction Electric

Fund 18, 150, alled Carpon The Soid ,, ,. . Strand spud today or

Juni 25, 64 Inchoon Celed, Ware Juliking of 1480 19:5 Fix-481 Frence 625 John 665 J.C. WA. - 1100 Set 225' 8 5/8" # 233 June 23, 1965 June 27, 1765 Aligor as Follows: 2675-2600 2.5 AM 3175-2100 JSAN 1520-1430 3024 705-640 25 11

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Schoon leller 7-23-65 20 cones (255 on plione. 6 et Confidential

Monker in Ot Joealin pis filled + localin anather O.K.

Samples Reid Fran Existrat.

plugged as Follows: 2675-2600 2514 3175-2100 .. ds st 3004 1520-1430 705-640 25 11 275-200 25 11 30-0 1024

eleased 9-24-65) 1 # 39) USA-Ideeh #1 NENE sec. 8, T. 105., R4E Pall River Co. Apudded-Geologist eler. - 3501 gr. contractor - Lawmont Ovill accor 6-18-65 in equip. Kope to spired hy 18 34 Ideen Oselley @ 1460, let 225'of 85/8". Eipept to go to 2700. tops: Fallfile - 487, Puro - 625, Lelota - 665, ferdance 1100. 6-29-65 Plugged hole Vall Rever- 466 Apearfuil 15-14 mennekalta 1795 Musor - 610 0 pecke - 1834 moneson - 900 mendlena - 2070 Sendance - 1075 Red marker - 2390 Canyon Aprig - 1430 Roundtep - 2730

Y

7-8-65 Cat on location. Bit postiell ace plug al li all No ook ed en arou 6-14-66 aching lette 60 sample 7-30-66 Site filled + orker. general then i they Sunda -Runnal har Ma M. S. 4-466 por series - by No. On as the server servers

Mill: lenneco #1 USA-Ideen LOCATION: NENELLE. 8, TIOS, R + E LOGS RECD: TOPS: GEOLOGIC: 3 copies diellig time & lithely log. 2 copies well completion report. ELECTRIC. FILLD: SIMAL: 2 coper chil Eleg + = 1 copies from RM WLS RADIO. FIELDS FINAL 2 copies tonie - GR + teopy from RMWLS OTHERS: CUTTINGS RECD: Egal reck 7-5-66 CORES RECD: DRILL STEM DATA RECD: 1-30+66 CAP PLUG CHECKED: HUD PITS FILLED: OK 7-30-60 PLUGGING AFFIDAVIT SIGNED: Rec. 3 copies of Hed Norm 9-331 + 2 copile for 9-330 BOND RELEASED: 7-11-66

# OPERATOR'S TECHNICAL REPORTS / MAPS

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# WELL COMPLETION REPORT

TENNECO OIL COMPANY

# #1 USA IDEEN

660' FEL & 630' FNL (NE NE)

Section 8, Township 10 South, Range 4 East,

Fall River County, South Dakota

Jack W. Bogrett 235 West 18th St. Casper, Wyoming Phone 23 4-0396

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#### SYNOPSIS

<u>WELL</u>: #1 USA Ideen

LOCATION: NE NE Section 8, Township 10 South, Range 4 East; 660' FEL & 630' FNL Section 8; Fall River County, South Dakota.

ELEVATION: 3502' Ground; 3511' Kelly Bushing.

<u>SPUDDED:</u> 12:01 AM, June 23, 1965.

CEASED DRILLING: 1:00 AM, June 29, 1965.

STATUS: Plugged and Abandoned. June 29, 1965.

TOTAL DEPTH: Driller 2765'; Schlumberger 2768'.

CASING: Surface - 7 jts (225.70') new 8-5/8", 24#, J-55 R-2, CF&I, Landed @ 233' KB, w/ 165 sax reg 3% CaCL, good returns, plug down @ 8:15 AM., 6-23-65. Cemented by B-J.

HOLE SIZE: 7-7/8" base surface casing to TD.

<u>CONTRACTOR</u>: Lewmont Drilling Associates, Inc. - Rig #2. Dale Jaeger, Toolpusher.

<u>DRILLING MUD</u>: Magcobar - Gel & chemical, low solids mud designed to best minimize problems encountered by very anhydritic sedimentary section. Bob Norris - Engineer.

<u>CORING</u>: None.

DESTEM TESTING: None.

<u>LOGS</u>: Schlumberger - IES base surface casing to TD. GR/S base surface casing to TD.

<u>WELL SITE GEOLOGIST</u>: Jack W. Bogrett, Consulting Geologist, Casper, Wyoming.

## CHRONOLOGICAL HISTORY

Date	<u>Depth</u>	Do to a
6-22-05 100-3/4° 6-23-65 200-3/4°	240	Moving and Rigging up. Spud at Midnite. Drilled 240'-122 surf. hole, now running 8-5/8" surface csg.
6-24-65 700-140 1100-220 1400-3	95 <b>0</b>	Drilling w/ bit #1, DT-J 2-12/32. Ran 7 jts (225.70') new 8-5/8", 24#, J-55 R-2, CF&I, Landed @ 233' KB. w/ 165 sax reg 3% CaCl, good returns, plug down @ 8:15 AM., 6-23-65. Cemented by
2-25-65 2000-20 2184-20	2000	B-J. Drld plug @ 7:30 PM, 6-23-65. Drilling w/ bit #3, OSCIG-J 12-12-B. *Bit #1, DT=J(12-12-B) 240-1124'-84' 12hr *Bit #2,YT3-J(12-12-B)1124-1573'-449'3-3/4
6-26-65	2323	Trip for bit #6. *Bit #3,0SC1G-J(12-13-B)1573-2013'-440' 10=hrs. *Bit #4,SV2-J(12-13-B)2013-2184'-171' 82
6-27-65 2456-1-3/	2561 /40	*Bit #5,M4N-J(13-13-B)2184-2323'-139'10 Trip for bit #8. *Bit #6,SV2-J(13-13-B)2323-2456'-133' 8½ *Bit #7,SV2-J(13-13-B)2456-2561'-105'8-3/4
6-28-65	2631	Trip for bit #9. *Bit #8,YS1-J(13-13-B)2561-2631'- 70' 7
6-29-65	2 <b>7</b> 65	<pre>12hrs down repairing rotary table bearing Running IES and GR/S w/cal by Schl. *Bit #9,YHG-J(13-13-B)2631-2714'-83' 8 *Bit #10,YH-J(13-13-B)2714-2765'-51' 4<sup>1</sup>/<sub>2</sub> Reached Drlr TD of 2765' 1:00AM 6-29-65 Schl TD of 2767'. Finished logging @ 9:00AM 6-29-65</pre>
Recieved pe of the So. Dakot plug and abandor	a State S	erbal permission from Mr. Robert Schoon Survey at well site @ 4:00PM, 6-29-65 to
25 25 30 Mr. Glen Wo by telephone to	sax 2675- sax 2175- sax 1520- orden, USC plug and	2600' 25 sax 715-640' 2100' 25 sax base surface casing

#### TENNECO OIL COMPANY

## #1 USA Ideen

### Section 8, Township 10 South, Range 4 East

#### Fall River County, South Dakota

#### SAMPLE DESCRIPTION

Samples were examined under 12X eyepiece and 1Y objective during drilling of well, June, 1965.

From	To	<u>Feet</u>	Description
0	80	80	Shale, dark gray, medium firm, with much white and weathered yellow bentonite.
80	120	40	Shale, as above, with sandstone, light gray, to dark gray, glauconitic in part, very fine grained to fine grained, shaly and clay filled, subangular to subrounded, low to no P&P. No show. Some dark accessories.
	<u>NEWCA</u>	STLE SAN	DSTONE ZONE 100: (+3411') est., behind csg.
	<u>SKULL</u>	CREEK S	HALE 120' (+3391') est., behind casing.
120	190	70	Shale, medium to dark gray, somewhat softer than above with occ. tr. ss. as above.
190	220	30	Shale as above, with increase in ss, light gray to dark gray, very fine grained to fine grained, subangular to subrounded, glauconitic in part, shaly and clay filled, some carbonaceous mater- ial. No show.
220	240	20	Shale, dark gray, with sandstone as above.
		Set 8	5/8" csg. @ 233' KB.
240	260	20	Shale, dark gray, soft, tending fissile, with brown limestone or porcellanite, very hard.
260,	340	80	Shale as above; with siltstone, very dark gray, very glauconitic, soft to hard; trace pyrite; trace brown limestone or porcellanite.
340	400	60	Shale, dark gray, soft, fissile with much silt- stone, dark gray, very glauconitic.
400	478	78	Shale and siltstone as above.

From	To	<u>Feet</u>	Description
	<u> </u>	RIVER FO	RMATION 478' (+3033') 466' (+3045') Log.
478	490	12	Sandstone, medium gray, fine grained, subangular, hard, very shaly and dirty, low P&P. No show. Dark accessories and few pink grains.
490	520	30	Shale, light gray, very soft, with rounded, floating siderite? pellets, brown, many loose and unconsolidated; trace sandstone, light gray, fine grained, subangular, silty, dark accessor- ies and pink grains; low P&P. No show. Trace carbonaceous material.
520	540	20	Sandstone, light gray to buff, fine grained, subrounded, few dark accessory minerals and pink grains, good P&P, No show; trace quartz- itic sandstone; some shale and siderite pellets as above; much pyrite.
54 <b>0</b>	580	40	Sandstone as above, with light to dark gray soft shale interbedded with sandstone.
580	600	20	Sandstone, light gray to white, fine grained, subrounded, few dark accessories and pink grains, good to excellent P&P generally friable; some carbonaceous material.
600	625	25	Sandstone as above, with dark gray, shaly sand- stone and white clay filled sandstone; gray & green, sandy claystone; much pyrite in sample.
	FUSON	I FORMATI	<u>ON</u> 612' (42900') Log.
625	665	40	Shale, varicolored, semi-waxy with conchoidal fracture, very soft; trace sandstone, pink, very fine grained, clay matrix, trace pyrite; loose fine grained subrounded clear grains from above sandstone.
665	<b>70</b> 0	35	Sandstone, white clear quartz grains, fine to medium grained, subrounded to rounded, very friable, much loose sand, very few accessory minerals, lighty pyritic.
700	780	80	Shale, varicolored, conchoidal fracture, soft, with gray becoming predominant color; inter- bedded with sandstone - white to light gray, fine grained to very fine grained, clean to very white limestone matrix to sandy limestone.
780	800	20	Sandstone, clear quartz grains, medium grained, all unconsolidated, subrounded, some dark accessories.

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From	To	Feet	Description_
800	820	20	Sandstone, sandy limestone, and limestone as above and dark gray shale.
820	860	40	Shale, medium to dark gray, some red, soft, conchoidal fractures; trace brown limestone; trace limey sand.
860	880	20	Shale, light tan to light brown, with sandstone, light brown, very fine grained, very calcareous; and brown limestone.
	MORRIS	ON FORMA	TION 900' (+2611') Log.
880	950	70	Interbedded sandstone, very fine grained, light gray-dark gray-brownish, calcareous, rounded, very silty and shale, dark gray-brown, calcareous; trace brown limestone.
950	1040	90	Interbedded sandstone and shale as above; sand- stone, highly carbonaceous, very fine grained to fine grained, very friable; shale in lower part of interval is varicolored,
1040	1100	60	Claystone and limestone, light graygreen to light tan, soft to firm, sandy in part.
	<u>sundan</u>	ICE FORMA	TION 1100' (+2411') 1075' (+2436') Log.
1100	1124	24	Sandstone, light greenish gray, very fine grained, rounded, low P&P, very glauconitic.
1124	1200	76	Sandstone, light greenish gray, very fine grained, as above; shale, green, soft.
1200	1240	40	Sandstone and shale as above.
1240	1260	20	Sandstone, white, very fine grained, rounded, few pink to amber grains; sandstone and shale as above.
1260	1300	40	Shale and siltstone, graygreen, very glauconitic, friable to firm; shale, red, silty; sandstone, red to salmon, very fine grained.
1300	1360	60	Sandstone, white, very fine grained, rounded, few pink grains; sandstone, rod, very fine grained, also red siltstone and shale.
1360	1396	36	Shale and siltstone, gray; sandstone as above.
1396	1440	44	Shale, gray to graygreen to dark gray, fissile, soft.
1440	1455	15	Limestone, brown, dense.

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From	<u> </u>	Feet	Description		
	<u>CANYON</u>	SPRING	5 SANDSTONE 1450' (+2061') Log		
	Circulated samples @1461' after drilling break @ 1455'.				
1455	1461	6	Sandstone, brown to white, very fine grained, rounded, well sorted, friable, very calcareous, fair to good P&P.		
1461	1514	53	Sandstone, white, fine grained, well rounded, friable, excellent P&P, many loose grains.		
	SPEARF.	ISH FORM	<u>AATION</u> 1514' (+1997') Log.		
1514	1620	106	Shale, brick red, firm, blocky, anhydritic, silty in part.		
	GOOSE :	EGG FORM	<u>MATION</u> 1585' (+1926') Log.		
1620	1640	20	Siltstone, red, with free floating rounded, clear frosted, quartz grains, some gray mottling; sandstone, red, very fine grained.		
1640	1660	20	As above, with abundant anhydrite.		
1660	1680	20	Anhydrite, white, with small amount of silt- stone, bright red.		
1680	1720	40	Siltstone, bright red, firm with white anhydrite.		
1720	1740	20	Siltstone and anhydrite as above with limestone, light lavender; some light pink anhydrite.		
1740	1760	20	Siltstone, bright red; anhydrite, white to light pink.		
1760	1800	40	Siltstone, red to brownish, firm.		
	<u>MINNEK</u>	AHTA LI)	<u>MESTONE</u> 1800' (+1711') 1794' (+1717') Log.		
1800	1835	35	Limestone, buff to light cream to light pink, microcrystalline, dense.		
	OPECHE	SHALE	1835' (+1676') Log.		
1835	1925	90	Shale and siltstone, dark red to maroon, some sandstone very fine grained and siltstone, light maroon; some floating sand grains in the shale.		
1925	1945	20	Sandstone, white to light pink, fine grained to coarse grained, poorly sorted, very friable, well rounded grains, some white cementation, good P&P, many loose sand grains.		
1945	1995	50	Siltstone, dark red and sandstone, very fine grained, dark rod; some locos well re addi sand grains; sandstone, orange, very fine grained, friable, rounded in the 75-95' interval.		

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From	To	Feet	Description
1995	2050	55	Siltstone, red, firm with few loose rounded quartz grains.
2050	2055	5	Sandstone, orange to white, very fine grained to fine grained, poorly sorted, friable, rounded,
2055	2060	5	Shale, dark red, hard.
2030	2065	5	Sandstone, orange to white, as above.
2065	2070	5	Siltstone and shale, red, hard, as above.
	MINNE	LUSA FOR	MATION 2070: (+1441') Log.
2070	2100	30	Anhydrite, white, sucrose; Dolomite,buff, dense, microcrystalline; much loose sand in 2090-2100; sample, probably cavings.
2100	2125	25	Dolomite, gray to dark gray, dense, microcrystal- line, with thin zones of sandstone, white, fine grained, subrounded, no P&P, solid calcareous interstitial filling.
2125	2135	10	Sandstone, white to salmon, very fine grained to fine grained, very calcareous, rounded, friable, much loose sand, but low P&P some dolomite as above; trace white anhydrite.
2135	2145	10	Siltstone, red; trace salmon sandstone as above.
2145	2155	10	Dolomite, gray, mottled dark gray, crystalline, soft, trace chert; anhydrite, white, with pos- sible oil on some fracture surfaces.
2155	2160	5	Dolomite, tan, mottled dark gray, microcrystalline, firmer than above; anhydrite, white, as above.
2160	2165	5	Dolomite and anhydrite as above; some extremely hard argillaceous dolomite; trace chert.
2165	2180	15	Dolomite, tan, slight mottling, crystalline to microcrystalline, anhydritic; shale, very dark gray, soft, fissile.
2180	2190	10	Dolomite, as above.
2190	2195	5	Shale and siltstone, brown, very calcareous, some very hard.
2195	2200	5	Sandstone, white, fine grained, calcareous matrix, subrounded, low to no P&P.
2200	2207	7	Sandstone, as above, with dark gray, soft, fissile shale.
2207	2215	8	Dolomite, gray, mottled dark gray, sandy in part, microcrystalline to crystalline; trace anhydrite, shale and sandstone, as above.

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From	<u> </u>	Feet	Description
2215	2245	30	Dolomite, light gray to dark gray to buff, with some sandstone, white, fine grained, rounded, very calcareous, low P&P.
2243	2275	30	Dolomite, as above; anhydrite, white much red shale and siltstone and dark gray and graygreen shale possibly cavings; some red soft silky shale and much loose sand grains.
2275	2285	10	Shale, as above; with much loose cand grains; some of the shale is similar to red marker but waxy,red to light marcon.
2285	2295	10	Anhydrite, white, mottled gray to dark brown.
2295	2305	10	Dolomite, gray, finely crystalline to micro- crystalline with decreasing anhydrite as above.
2305	2310	5	Dolomite, dark gray, finely crystalline to microcrystalline, argillaceous, tending silty; shale, very dark gray, soft, fissile.
2310	2320	10	Sandstone, light gray to dark gray, fine to medium grained, subrounded, hard,low to no P&P, dolomite matrix.
2320	2340	20	Dolomite, gray to light tan, dense, microcrystal- line; shale, gray.
2340	2389	49	Dolomite, gray to dark gray, dense, crystalline to microcrystalline; shale, dark gray; trace anhydrite and red shale, probably cavings.
	<u>"RED</u>	MARKER"	<u>SHALE</u> 2389' (+1122')
2389	2395	6	Shale, brown, fissile, soft, talc like, very faint satin sheen.
2395	2405	10	Sand, loose, unconsolidated, rounded, with much shale and dolomite as above.
2405	2455	50	Dolomite, light tan to gray, with much shale, graygreen to gray, soft and some red shale and siltstone.
2455	2475	20	Dolomite, light tan to gray, sandy to very sandy; sandstone, white, very fine grained to fine grained, rounded, very tite & dolomitic, abundant chert.
2475	2495	20	Dolomite and sandstone, as above; trace anhydrite.
2495	2505	10	Dolomite, as above; sandstone, medium gray, fine grained, very dirty appearance, rounded, low P&P trace dolomite with black mottling.
2505	2515	10	Anhydrite, white to light buff; shale, dark gray.

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From	To	Feat	<u>Description</u>
2515	2535	20	Dolomite, dark brown to dark gray; guide and- stone as above; anhydrite, white; wich covings.
2535	2545	10	Dolomite, as above; shale, black, soft, blocky in 2540-43: interval; much uphole cavings.
2545	<b>25</b> 85	40 Rig	Dolomite, light gray, microcrystalling to sucrose, firm; shale, black; some uphole cavings. down 12 hours with rotary repair @2577'.
2585	2590	5	Dolomite and shale, as above.
2590	2595	5	Sandstone, medium gray, fine to medium grained, dark accessories, subrounded, fragments have very low P&P, abundant loose grains.
2595	2615	20	Dolomite, light tan to gray, sucrose to micro- crystalline, slightly anhydritic; anhydrite, sucrose; shale dark gray and trace sandstone a/a.
2615	2629	14	Dolomite, as above; increase in dark gray shale.
2629	2653	24	Sandstone, medium gray, very fine granned to fine grained, subangular to subrounded, very silty, has very dirty appearance, very low P&P, fragments are sharp and angular, spotty stain, very faint dull yellow fluorescence, very poor cut only when crushed, becomes more porous and definitely wet at bottom of interval; anhydrite, white.
2653	2660	7	Dolomite, tan to very dark brown, earthy, brittle.
2660	2671	11	Dolomite, light tan, less hard than above. Circulated sample out @2671'.
2671	2685	14	Dolomite, light tan to light brown, sucrose to crystalline; shale, black fissile; sandstone, white, fine grained, rounded, friable.
2685	2690	5	Sandstone, white, fine grained, rounded, friable, calcareous matrix, low P&P.
2690	2695	5	Sandstone, light tan, very fine grained to fine grained, rounded, very dolomitic; dolomite, sandy, light tan.
2695	2704	9	Dolomite, light tan to light to dark gray, micro- crystalline, brittle, hard, sandy in part; shale, very dark gray, appears siliceous; trace sandstone, gray, very fine grained, dolomitic.
2704	2710	6	Dolomite, dark gray, silty, very brittle; sand- stone, light gray, very fine grained, rounded, friable.

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From	To	<u>Feet</u>	Description
2710	2722	12	Dolomite, gray, very sandy grades to sandstone, medium gray, very fine grained, rounded, very dolomitic, low P&P.
2722	2737	15	Sandstone, medium gray, very fine grained, rounded, very to slightly dolomitic, very hard and low P&P to friable and fair P&P.
2737	2755	18	Sandstone, medium gray, light tan, fine grained, rounded, friable to very hard, generally low P&P, slightly dolomitic to very dolomitic and grades to sandy dolomite.
2755	2765	10	Sandstone, light pale green, very fine grained, grades to siltstone, soft and gummy; sandstone and dolomite as above.
			2765' Driller TD 2768' Schlumberger TD

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#### Miscellaneous Information

This test was drilled in very good time. This is attributable to the use of nearly maximum weight on the bits, and the use of jet bits exclusively. Véry little rig down time was had during the drilling of the test also.

A chemical-low solids mud was used and was very satisfactory for the most part; during the drilling of some of the anhydrite sections in the Minnelusa formation there was a tendency for much uphole caving material to be present in the samples, but this seems to be a common occurence in anhydritic zones.

#### FORMATIONS DRILLED

Formation	<u>Depth</u>	<u>Drite</u>
Mowry shale	Surface	
Newcastle sandstone zone	1001	+3411°
Skull Creek shale	1201	+33911
Fall River sandstone	4661	<b>+3045</b> ╹
Fuson formation	612†	+29001
Morrison formation	9001?	+2611'
Sundance formation	10751	-2436
Canyon Springs sandstone	1450'	+206l'
Spearfish formation	1514'	+1997'
Goose Egg formation	1585'	+1926'
Minnekahta limestone	1794'	+17171
Ope <b>che shale</b>	1834'	+1676'
Minnelusa formation	2070:	-1441'
"Red Marker" shale	23891	+1122'
Base Leol	25331	÷ 9731
Base Leo2	26187	0931
Base Leoz	27021	- 8031

TD 2765'

# ADMINISTRATIVE / SUNDRY REPORTS

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STATE OIL AND GAS BOARD PIERRE, SOUTH DAKOTA JULY 11, 1966

A special meeting of the State Oil and Gas Board was held in the office of the Secretary of State at 11:30 o'clock A. M. on July 11, 1966.

PRESENT: Nils A. Boe, Governor; Frank Farrar, Attorney General; Bernard Linn, Commissioner of School and Public Lands; Alma Larson, Secretary of State

Governor Boe called the meeting to order.

Miss Larson, Secretary, presented to the Board Well Plugging Record from Tenneco Oil Company, P. O. Box 1772, Casper, Wyoming, covering the USA-Ideen No. 1 Well, Section 8-10S-4E, Fall River County, South Dakota.

It was moved by Mr. Linn and seconded by Mr. Farrar that the Well Plugging Affidavit of Tenneco Oil Company on the USA-Ideen #1 Well be approved and the liability under said Company's Blanket Bond in the amount of \$20,000.00, executed by the United States Fidelity & Guaranty Company of Baltimore, Maryland, as Surety, conditioned upon compliance with the laws and Rules and Regulations of the Oil and Gas Board concerning wells to be drilled in Fall River County, South Dakota, be, and the same is terminated and at an end from and after this date, on this particular well only.

All voted "Aye" and motion carried.

/s/ NILS A. BOE GOVERNOR /s/ ALMA LARSON SECRETARY OF STATE

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General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State laws 22 and 24, and 33, below regarding separate reports for separate completions. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

hem 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements.

Consult local State ur Federal office for specific instructions.

**Fem 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Fem 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Fem 22:** and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval. **Fem 29:** "Sacks Coment": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Fem 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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871-233

U.S. GOVERNMENT PRINTING OFFICE: 1963-- O-663636

		24					
Form 9-331	UNITED STATES	SUBMIT IN TRIPLICATE.					
(May 1963) DEPA	RTMENT OF THE INTERI	OR (Other instructions on re-	5. LEASE DESIGNATION AND SERIAL NO.				
	GEOLOGICAL SURVEY		Mont-050176 (SD)				
CUNDRY	NOTICES AND REPORTS C		6. IF INDIAN, ALLOTTEE OR TRIBE NAME				
and the second	proposals to drill or to deepen or plug by PPLICATION FOR PERMIT—" for such pr	oposals.)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
1. OIL GAS			7. UNIT AGREEMENT NAME				
WELL X WELL OT	HER Dry Hole		8. FARM OR LEASE NAME				
Tenneco Oil Compa	n t		USA-Ideen				
3. ADDRESS OF OPERATOR			9. WELL NO.				
P. O. Box 1772, C	asper. Wyoming		1				
4. LOCATION OF WELL (Report loc	ation clearly and in accordance with any	State requirements.•	10. FIELD AND POOL, OR WILDCAT				
At surface	See also space 17 below.)						
660' FNL, 660' FE	L, NE/4 NE/4, Section 8		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA				
			Sec. 8, T-105, R-4E				
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, 3511 KB	RT, GR, etc.)	12. COUNTY OF PARISH 13. STATE Fall River South Dakot				
	JJII KB		Fall Mivel Douch Dakou				
16. Chee	ck Appropriate Box To Indicate N	ature of Notice, Report, or (	Other Data				
NOTICE OF	INTENTION TO :	SUBSEQ	QUENT REPORT OF :				
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL				
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING				
SHOOT OR ACIDIZE	ABANDON* XX	SHOOTING OR ACIDIZING	ABANDONMENT*				
REPAIR WELL	CHANGE PLANS	(Other)					
(Other)		(NOTE: Report result Completion or Recom	s of multiple completion on Well pletion Report and Log form.)				
hent to this work.)* Above well was dr to plug and aband 25 sx - 2675 25 sx - 2175 30 sx - 1520	-2600 ' -2100 '	nd found to be non-p	roductive. We propose				
25  sx - 715		ā.	4				
	of surface casing $(1/2)$	in $1/2$ out)					
	of surface casing (1/2	in, i/2 000/					
10 54 - 005	or purrace caping						
Interval between	plugs will be filled wit	h heavy drilling mud					
Above procedure v	rerbally approved by Mr.	G. E. Worden and Mr.	Bob Schoon.				
18. I hereby certify that the fore	going is true and correct						
SIGNED L. C. BODEMA	NN, JR. TITLE Dis	t. Production Superi	ntenderty July 2, 1965				
(This space for Federal or St	ate office use)	P + Da	4.2				
APPROVED BY		Carelary- Ale	DATE 7-11-66				
Approved for pelease of bo	nd Kell +	pas consoper					
Date file 8, 1410	6						
the To	*See Instruction	s on Reverse Side					
State Geologist	Fryor						

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# CORRESPONDENCE

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July 14, 1966

Miss Alma Larson Sec., Oil & Gas Goard State Capitol Pierre, South Dakota

Dear Miss Larson:

I am enclosing the following for Tenneco #1 USA-Ideen well, Fall River County, Sec. 8, T. 10S-R 4E:

Induction-Electrical Log Sonic Log-Gamma Ray Well Completion Report Form 9-330 Sample log 5 Scout reports

Sincerely yours,

(Mrs.) Ruth Lynch Bookkeeper

For the State Geologist

Enclosures 10

Copy: Coul Cox

July 8, 1966

Miss Alma Larson Secretary of State Secretary, Oil and Gas Board State Capitol Pierre, South Dakota 57501

Dear Miss Larson:

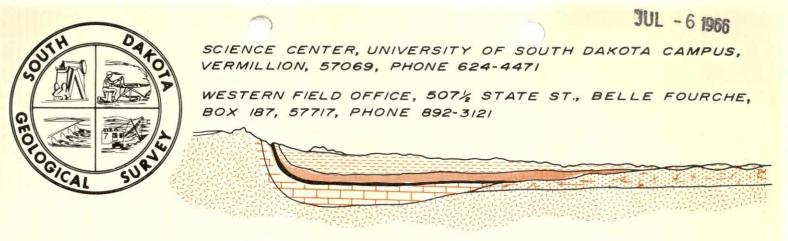
This letter is to notify you that Tenneco Oil Company, USA-Ideen No. 1, located in sec. 8, T. 10 S., R. 4 E., Fall River County, has met all requirements of the Rules and Regulations and as of this date I am recommending that the bond be released and so affix my signature to the plugging form.

Sincerely,

Duncan J. McGregor State Geologist

DIMilan

cc Earl J. Cox



Western Field Office July 5, 1966

Dr. Duncan McGregor State Geologist State Geological Survey Vermillion, South Dakota

> Re: Tenneco #1 U.S.A.-Ideen NENE-8-10S-4E Fall River County, South Dakota Permit No. 391

Dear Duncan:

I have today received a set of samples from Amstrat from the above test. The pits are filled and the marker placed. My records show you have received the necessary logs, samples descriptions and plugging forms.

The plugging forms are Federal Forms which we accept in lieu of Form 7, when the mineral is U.S. Government owned.

It is recommended that the bond be released.

Sincerely,

Earl Cox Senior Geologist

EC:rk

MERLIN J. TIPTON ASSISTANT STATE GEOLOGIST VERMILLION EARL J. COX SENIOR GEOLOGIST BELLE FOURCHE

"In 1.6 1966

Western Field Office June 14, 1966

Tenneco Oil Company P.O. Box 1772 Casper, Wyoming

> Re: Tenneco #1 USA-Ideen NENE-8-105-4E Fall River County, South Dakota Permit No. 391

Gentlemen:

In checking our records I find we have not received a set of samples from the above test. Samples are to be in the office of the State Geologist within six months of the plugging of the test. Would you check on this and let us know what has happened to the samples.

As soon as the samples are received the bond can be released.

Sincerely,

Earl Car

Earl Cox Engineering Petroleum Geologist

EC:rk

January 31, 1966

Fr. Larl J. Cox State Geological Survey P. O. Eox 187 Belle Fourche, S. Dak.

Dear Larl:

I am enclosing a dual induction-laterolog and sonic log-gamma ray for each of the following wells:

> Conkoy #1 U.S.A. Superior Fall River County

ConRoy #1 Childers Fall River County

Conkoy #1 Peterson Fall River County

Tenneco #1 USA-Ideen Fall River County

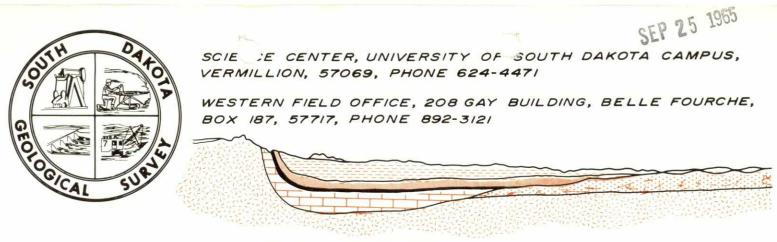
Sincerely,

RX

(Mrs.) Ruth Lynch Bookkeeper

For the State Geologist

Enclosures 8



Western Field Office September 24, 1965

Dr. Duncan McGregor State Geologist State Geological Survey Vermillion, South Dakota

> Re: Tenneco #1 USA-Ideen NENE-8-10S-4E Fall River County, So. Dakota Permit No. 391

Dear Duncan:

I have had a letter from Mr. R. B. Powers, District Geologist for Tenneco Oil Company. Mr. Powers authorizes the immediate release of any and all information from the above test.

Sincerely,

Earl Cox Engineering-Petroleum Geologist

EC:sn

cc: Secretary, Oil and Gas Board

AUG 1 3 1965



TENNECO OIL COMPANY · P. O. BOX 1772 · 162 NORTH WOLCOTT · CASPER, WYOMING 82602 August 6, 1965

> Mr. G. E. Worden United States Geological Survey P. O. Box 219 Newcastle, Wyoming

Dear Mr. Worden:

Attached for your files are the Well Completion Report and electric logs run on our USA-Ideen No. 1, Wildcat, Fall River County, South Dakota, federal lease no. Mont-050176(SD).

Very truly yours,

TENNECO OIL COMPANY Original Signed By L. C. BODEMANN, JR.

L. C. Bodemann, Jr. District Production Superintendent

THO/lf

Attachment

cc: S. D. Oil & Gas Board w/attach.





SOUTH DAKOTA

#### STATE GEOLOGICAL SURVEY

SCIENCE CENTER University of South Dakota Campus VERMILLION 57069 Phone 624-4471 Western Field Office

DUNCAN J. McGREGOR Director and State Geologist MERLIN J. TIPTON Assistant State Geologist

AUG 4

1965

Western Field Office Belle Fourche, South Dakota August 3, 1965

Dr. Duncan McGregor State Geologist State Geological Survey Vermillion, South Dakota

> Re: Tenneco #1 USA-Ideen NENE-8-105-4E Fall River County, South Dakota Permit No. 391

Dear Duncan:

As shown by the attached scout sheet, the abandonment marker has been placed and the mud pits filled at the above location. Two copies each of the mechanical logs have previously been sent you.

After the samples, sample descriptions, and final forms have been received, and the confidential period terminated, the bond coverage on this location can be terminated.

Sincerely,

Earl Cox

Engineering-Petroleum Geologist

EC:sn

JUL 21 1965



SOUTH DAKOTA

### STATE GEOLOGICAL SURVEY

SCIENCE CENTER University of South Dakota Campus VERMILLION 57069 Phone 624-4471

DUNCAN J. McGREGOR Director and State Geologist MERLIN J. TIPTON Assistant State Geologist

Belle Fourche, South Dakota July 20, 1965

Dr. Duncan McGregor Vermillion, So. Dak.

> Re: Tenneco #1 USA-Ideen NENE-8-10S-4E Fall River County, So. Dak. Permit # 391

Dear Duncan:

Schlumberger has sent me two copies each of the sonic log-gamma ray and the induction-electric logs on the above test. The four logs are being sent you with this letter.

Sincerely,

Earl Cox

SOUTH DAKOTA State Water Resources Commission

STATE OFFICE BUILDING PIERRE, SOUTH DAKOTA

June 21, 1965

Marvin C. Kern Rumford, South Dakota

Dear Mr. Kern:

I have been advised that the **Tenneco Oil Company** has obtained a Permit to Drill for Oil and Gas on your land in Section **5**, T 10, R

Occasionally, owners of land consider converting abandoned oil wells into water wells. Please advise me whether or not you intend to convert the oil well drill hole on your land into a water well if water is encountered and the drill hole is abandoned as an oil well.

If you are considering making a water well out of the abandoned oil well drill hole, special considerations are necessary to comply with the State's oil and water laws. The abandoned oil hole must be properly plugged and the water well properly constructed. All conversion work will be at your expense. The cost will vary, depending upon the characteristics of the drill hole, but such cost will be in the neighborhood of \$5,000 or more. Usually another driller and drill rig will have to be arranged for. This other drill rig and casing and other materials will have to be on hand to take over immediately after the special oil well plugging is completed, because the drill hole cannot be left open for any appreciable length of time without spoiling it. Approval of plans for construction of the water well will be required, and a bond covering proper constructin may be required. Also, a water right may be required. All of these arrangements take considerable time to accomplish.

Please advise me immediately if you plan to convert the oil well drill hole into a water well. We both hope that a producing oil well results from the drill hole on your land; however, if not and you are planning on a water well, we must start making arrangements now.

Sincerely,

J.W. GRIMES Chief Engineer

JWG/bw

cc: Oil and Gas Board, Pierre, S.D.  $\sim$  Dr. Duncan Mc Gregor, State Geologist, Vermillion, S.D.

June 15, 1965

Budget photos t

L. C. Bodemann, Jr. District Production Supt. Tenneco Oil Company P. O. Box 1772 Casper, Wyoming

> Re: #1 USA-Ideen Well Sec. 8-T10S-R4E Fall River County

Dear Mr. Bodemann:

Enclosed please find a copy of each of the following:

Minutes of Board Meeting of June 15, 1965 Permit No. 391 Plat of location Receipt No. 72740 for \$100.00 permit fee

Thank you for giving us this opportunity to be of service.

COPY

Very truly yours,

(Miss) ALMA LARSON Secretary of State

AL:nmt Enclosures cc: Dr. Duncan McGregor V

## MISCELLANEOUS

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### NO MISCELLANEOUS INFORMATION FOR THIS WELL AS OF 5/25/2011

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