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DISTRIBUTION	NEW NEW	MEXICO OIL CONSER	VATION COMMISSION		orm C-101	
SANTA FE	NE"	MEXICO OIL CONSER	TATION COMMISSION		evised 1-1-65	
FILE				5	A. Indicate Type o	of Lease
U.S.G.S.					STATE X	FEE
LAND OFFICE				. 5	. State Oil & Gas I	L e ase No.
OPERATOR					B 11189	mmm
ADDLICATIO	N FOR REDUIT TO	DDILL DEEDEN O	D DI LIC BACK			
APPLICATIO	N FUR PERMIT TO	DRILL, DEEPEN, O	R FLUG BACK	7	Unit Agreement 1	Name
					-	
b. Type of Well		DEEPEN	PLUG B	ACK 8	. Farm or Lease N	ame
OIL GAS X	OTHER	s	INGLE X MULT	IPLE ZONE	State M	
2. Name of Operator					. Well No.	
Tenneco Oil Compa	ny				1E	
3. Address of Operator				1	0. Field and Pool,	
P.O. Box 3249, Eng	<u>glewood, Colora</u>	do 80155			Basin Dako	ota
4. Location of Well UNIT LETTE	.R LOC	ATED 1/80 FE	ET FROM THE South	LINE		
1540	l.loo+	16	p. 29N RGE. 8W			
AND 1540 FEET FROM	THE West LIN	E OF SEC. 16	p. 29N RGE. 8W	(177777)	2. County	HHHHH
					San Juan	
	HHHHHH	/////////////////////////////////////		HHHH	THITTINI THE	/////////////////////////////////////
		//////////////////////////////////////		A. Formation	•	otary or C.T.
				<u>akota</u>		otary
21. Elevations (Show whether DF,	_	& Status Plug. Bond 21	' =		22. Approx. Date	Work will start
6546' GR	Gene	ral	Four Corners		ASAP	···=
23.	P	ROPOSED CASING AND	CEMENT PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF	CEMENT	EST. TOP
12 1/4"	9 5/8"	36#	± 250'	Circ to	surface	
8 3/4"	7"	23#	± 37681	2 stage	- Circ to s	surface
6 1/4"	4 1/2"	11.6#, 10.5#	<u>+</u> 7710'	Circ to	liner top	
	ĭ	'		1	•	
6						
See Attached Drill	ling Procedure.				_	
Gas is Dedicated				0	(C)	
das is Dedicated				100	& (!!))	
				C I V		
			∞ (of the	. 23	
					30	
A BDD /	APPROVAL EXP.RES 3-12-84 UNLESS DRILLING IS COMMENCED. SPUD NOTICE MUST BE SUBMITTED WITHIN 10 DAYS.					
LINIE	SS DRILLING IS CON	MENCED.		Sr. W	· 3	
SPUD	NOTICE MUST BE S	JBMITTED	•		ક્રી. ઁ	
WITHIN 10 DAYS.						
IN ABOVE SPACE DESCRIBE PR	OPOSED PROGRAM: IF	PROPOSAL IS TO DEEPEN OR	PLUG BACK, GIVE DATA ON	PRESENT PRODE	UCTIVE ZONE AND PR	OPOSED NEW PRODUC-
I hereby certify that the information	on phone is the end com	olete to the best of my kno	wledge and belief			
1 000110)				
Signed Title Production Analyst Date September 6, 1983						
Denise Wilson (This space for State Use)						
7	(\mathcal{D})		nuicala nictoint 🖼 🧸		positive english	
APPROVED BY 5 mm	/ Chan	SUPE	RVISOR DISTRICT # 3	D	ATE	<u></u>
CONDITIONS OF APPROVAL, IF	ANY:					

OIL CONSERVATION DIVISION

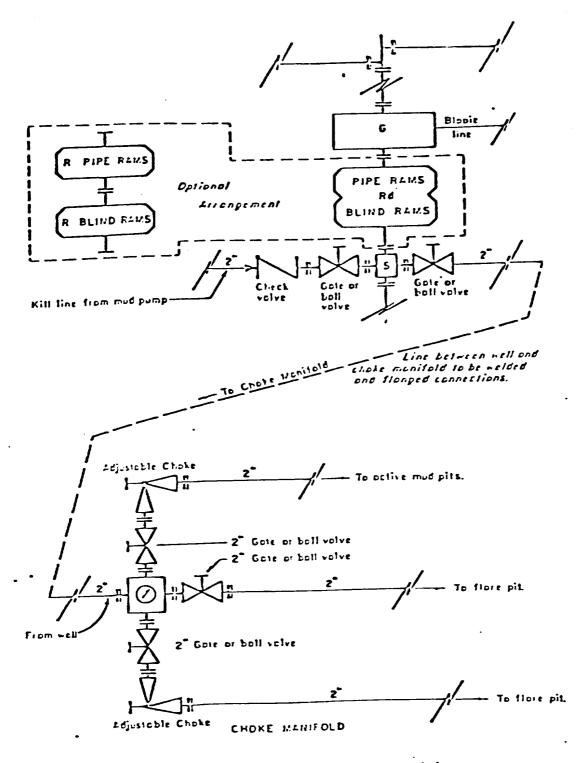
STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

Form C-102 Revised 10-1-78 SANTA FE, NEW MEXICO 87501

res must be from the outer boundaries of the Section

		All distances must be fro	on the cuter flowns	inties of the Section	l. 	
Operator	*		Lease			Well No.
TENNECO OI	L COMPANY	.	STATE "M	·		<u>le</u>
Unit Letter	Section	Township	Range	County		
K	16	29N	8w	San	Juan	
Actual Footage Loc		41	3510			
1780 Ground Level Elev.	feet from the SO Producing For	uth line and	1540	feet from the	West	line Dedicated Acreage:
6542	Dako			Dakota		320 Acres
		ted to the subject we	ell by colored p	pencil or hachure	marks on th	
interest a	nd royalty).					nereof (both as to working
	communitization, u	nitization, force-pooli	ng. etc?			all owners been consoli-
X Yes		iswer is "yes," type o				
this form i	f necessary.)					ated. (Use reverse side of
1	_					munitization, unitization, approved by the Commis-
			1			CERTIFICATION
Mesa 100%	Texaco 100%			<u>a</u>	1	ertify that the information con-
E3555	○ E3149				1	knowledge and belief.
- 				3 _ L	Name	Kunel
i	!			177	Position	en Russell
Co	TOC ¹ 50% noco !50%		↓ 1	,	Company	. Production Analyst enneco Oil E & P
	1202 S	ec.			Date	ily 20, 1982
		- <u>i</u>	· · · · · · · · · · · · · · · · · · ·		- 00	719 20, 1502
1 -	U/o N Morris	Central 77.25% Mizel 11.2 5%	 		1	certify that the well location
☐ Conoco 5 ☐ B11240	Wayne Wayne	Moore = 9.0%				this plat was plotted from field actual surveys made by me or
1540	Paul U	_	l l		1	supervision, and that the same
	♥ B11	189	ļ.		is true a	nd correct to the best of my
L					knowledge	and belief.
Texaco 10	Mos a		i 		Date Survey	od
E3149	00% - Mesa 100%		1		June]	8 1982 NO
	E5184		1		Registered F and/or Land	rolessopa Entroder
		=			Fred	Kerr Jr.
					Certificate N	No.
0 330 660	90 1320 1650 198	0 2310 2640 2000	1500 10	00 500 0	3950	MERR.



All equipment to be 3,000 psi working pressure except os noted.

- Double rom type preventer with two sets of roms. Rd
- Single rom type preventer with one set of roms.
- Dritting spool with side outlet connections for choice and kill lines. \$
- Rototing head 150 psi working pressure minimum

ARRANGEMENT C

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION REQUIRED MINIMUM BLOWOUT PREVENTER AN CHOKE MANIFOLD J. WAGILL . 10-26-78 EVI

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION 6061 SOUTH WILLOW DRIVE ENGLEWOOD, COLORADO 80155

DRILLING PROCEDURE

DATE:

August 3, 1982

LEASE:

STATE "M"

WELL NO: 1E

LOCATION:

1520' FSL, 1530' FWL Section 16, T29N, R8W FIELD: Basin Dakota

San Juan County, New Mexico

ELEVATION

6546' G.L.

TOTAL DEPTH:

7710'

PROJECTED HORIZON: Dakota

SUBMITTED BY: J.P. Dick

יאם משמאסממע

DATE: August 4, 1982

-שתיבת

8/5/82

CC: Administration
 C.R. Jenkins
 Field File

ESTIMATED FORMATION TOPS

Ojo	2208'	Water
Fruitland	2908'	Gas, Water
Pictured Cliffs	3208'	Gas
Lewis	3268'	
Cliff House	4746'	Gas, Water
Menefee	4915'	Gas, Water
Point Lookout	5338'	Gas
Mancos	5507'	
Gallup	6442'	Oil/Gas
Greenhorn	7318'	
Dakota	7412'	Gas
TD	7710'	

DRILLING, CASING AND CEMENT PROGRAM

- 1. MIRURT
- 2. Drill a 12 1/4" hole to + 250 ft. with a gel water mud.
- Rig up and run 9 5/8" 36# K-55 ST&C casing to bottom. Cement with Class B. + 2% CaCl₂ in sufficient quantity to circulate cement to surface. If conditions warrant the use of loss circulation agents, 1/4 #/sx celloflake may be added. Wait on cement a minimum of 12 hours prior to drilling out.
- While waiting on cement, screw on a 9 5/8" 8rd X 11 3M casinghead. NU BOP's. Pressure test casing, blinds, manifold and lines to 1000 PSI for 30 minutes. GIH with drill pipe and test the pipe rams in the same manner. Record all tests on the IADC report sheet.
- 5. Drill out with an 8 3/4" bit and clear water. Drill to + 3768, or 500' into the Lewis Shale. Mud up prior to reaching intermediate T.D. Circulate at casing point a sufficient time to clean the hole to run casing.
- 6. Install casing rams, run 7" 23# K-55 casing equipped with a guide shoe on bottom, float collar one joint up and a stage collar 200' below the Ojo Alamo. Bakerlock from the shoe to the top of the float collar and run casing to bottom.

7.

INTERMEDIATE CEMENTING PROGRAM

FIRST STAGE:	LEAD	TAIL	
Туре		Cl B + 2% CaCl ₂ +	
		1/4 #/sx flocele.	
Sacks		150-200 sx	
Slurry yield		1.18 cuft/sx	
Mix weight		15.6 ppg	
Water requirements		5.20 gal/sx	

Type Howco Lite + 1/4 #/sx flocele Cl B + 2% CaCl₂
+ 2% CaCl₂

Sacks Calculated annular volume 50-75

Slurry yield 1.84 cuft/sx 1.18 cuft/sx

Mix weight 12.7 ppg 15.6 ppg
Water req's. 9.9 gal/sx 5.2 gal/sx

Precede the first stage with 20 bbls chemical wash and circulate two hours after opening the stage tool. Precede the second stage with 10 bbls "flow-check" or equivalent. If cement is not circulated to surface run a temperature survey after 6 hours to determine actual TOC as MMS requires. Wait on cement a total of 18 hours (from first plug down) before drilling is resumed.

- 8. Set slips with casing in full tension and cut-off. NU BOE and test as in procedure 4 above. Record tests on IADC report.
- 9. Drill out, dry up hole and drill a 6-1/4" hole to T.D. surveying as required. Lay down square drill collar before cutting the Dakota.
- 10. Log open hole as directed by GE department.
- If productive, run 4-1/2" 11.6# and 10.5# K-55 casing as a liner. Equip the casing with a float shoe and latch down collar on the top of the first joint. No threadlock is to used on this arrangement. Hang liner with a 150' lap in the intermediate casing.
- 12. Cement with a filler slurry as used for the intermediate string. Start with a 20 barrel mud flush, followed by the lead slurry with a fluid loss control additive and tail with 100 sx Cl B. Use sufficient quantity (50-75% excess) to circulate cement to the liner top.
- Circulate out the excess cement, LDDP and MORT.
- 14. If non-productive P & A as required by USGS.
- 15. Install tree and fence remainder of reserve pit.

CASING PROGRAM

INTERVAL	LENGTH	SIZE	WEIGHT	GRADE	OPTIMUM MAKE-UP
0-250'	250'	9 5/8	36• #	K~55	4230 STC-3090
0-37681	3768'	7	23•#	K- 55	LTC-3410
3618-7000	3382'	4 1/2	10.5#	K-55	STC - 1460
7000-TD'	710'	4 1/2	11.6#	K- 55	STC - 1700 LTC-1800

MUD PROGRAM

0-250' Spud mud.

250-3768' Low solid, fresh water mud. (Water and Benex.) Mud up prior to running casing.

3768-TD Gas

EVALUATION

Cores and DST's:

NONE.

Deviation Surveys

- 1. Survey surface hole at 100' intervals. Maximum allowable deviation at 500' is $1-1/2^{\circ}$
- 2. From surface to the Mancos formation, deviation surveys must be taken every 500'. In the Mancos/Gallup zones, surveys to be each 250'. Record all surveys in IADC Report book. Maximum allowable change in deviation is 1° per 100'. Maximum deviation allowable is 5°.

Samples:

As requested by Wellsite Geological Engineer

Logs:

- 1. GR/INDUCTION
- T.D to Intermediate.
- 2. CDL/GR/CALIPER

BLOWOUT EQUIPMENT

11" - 3000 BOP with rotating head to comply with TOC requirements as shown in BOE arrangement, Figure C. Preventers must be checked for operation every 24 hours with each check recorded on the IADC Drilling Report Sheet.

REPORTS

Drilling Reports for the past 24 hours will include depth, footage, time distribution, activity breakdown, mud properties, bit record, bottom hole assembly, daily and cumulative mud cost, deviation surveys, and other pertinent information to be called into Division Office by 7:30 AM Monday thru Friday.

TENNECO OIL COMPANY
P.O. Box 3249
ENGLEWOOD, COLORADO 80155
PHONE: 303-740-4800

OFFICE DIRECTORY

Charles R. Jenkins	740-2575
Ted McAdam	740-2576
Tom Dunning	740-4813
Dale Kardash	740-4 809

In case of emergency or after hours call the following in the preferred order.

(1)	Dale Kardash	740-4809	Office
,_,	Drilling Engineer	694-3367	Home
(2)	Ted McAdam	740-2576	Office
	Senior Drilling Engineer Specialist	978-0724	Home
(3)	Charles R. Jenkins	740-2575	Office
	Division Drilling Engineer	989-1727	Home
(4)	Harry Hufft	771-5257	Home
·	Division Production Manager		

