3R - 65

REPORTS

DATE: 4/3/1987 OIL CONSERVATION DIVISION



GARREY CARRUTHERS
GOVERNOR

April 3, 1987

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-5800

Mr. S.E. Reynolds
State Engineer
State Engineer Office
Bataan Memorial Building
Santa Fe, New Mexico 87503

RE: Department of Interior's Progress Report No. 13 "Quality of Water, Colorado River Basin"

Dear Mr. Reynolds:

I appreciate the opportunity to comment on the references to the oil and gas industry contained in the subject report. In June 1986, the Bureau of Reclamation contacted the Oil Conservation Division concerning a number of areas with high TDS flows. These flows were identified as wells that were either leaking or improperly plugged or abandoned.

In July 1986, the Bureau of Reclamation supplied the location, rate of flow, and TDS of the three high TDS flows they observed and attributed to the oil industry (correspondence enclosed). The following is a summary of the results of our investigation into each location, arranged in the order as in the Bureau's letter.

- a) There is no well in Section 29, T32N, R19W. A well in Section 32 was observed to have water ponded near it which had come from the well. This well was identified as Mesa Petroleum, Navajo 32 No. 1, that was plugged and abandoned on February 17, 1969. The well was reported to have been subsequently turned over to the Navajo Nation for use as a stock well. The Oil Conservation Division has no records on this well after 1969.
- b) The two wells in Section 18, T29N, R9W were identified as the Amoco Candelaria Gas Community No. 1 and the Amoco Valencia Gas Community "B" No. 1M. There was no flow observed at the surface and both wells passed a bradenhead mechanical integrity test this past year. There is a private gas line in the area that is supplied by the wells. Field personnel have stated that in the past, this line has had numerous leaks.

c) There is no well identified in Section 26, T31N, R20W.

There may be additional wells in BOR's San Juan River Unit that may be contributing to the salt load of the river. As these wells are reported or identified by Oil Conservation Division field personnel, corrective action is taken.

The Bloomfield Refinery, located adjacent to Hammond Ditch, continues to have crude oil and/or petroleum product atop shallow ground water at the site. Three additional monitoring wells have been drilled, but drilling of a recovery well and additional off-site wells has been delayed due to the reluctance of one land owner to consent to the drilling. Since seepage of oil from the site into the ditch only occurs when the ditch is empty and ground water levels in adjacent soil and permeable materials are higher, the refinery has kept the ditch full of fresh water this winter.

Even if all floating oil is removed, fluctuating ditch water levels will continue to have an impact on oil saturated soil. The only permanent solution is lining the ditch in the area of the refinery. If the ditch was lined, I believe that given the refinery's location, the remaining discharges to the subsurface from the refinery's permitted unlined ponds or land application area would have little or no effect on either salinity in the San Juan River, or on protectable ground water resources. As other refineries and natural gas plants are permitted, the Oil Conservation Division ensures that their discharges to the subsurface will not cause or aggrevate salinity problems.

Sincerely,

David G. Boyer

Hydrogeologist/Environmental Bureau Chief

DGB/cr

cc: OCD-Aztec

R.L. Gold, BOR, Durango

Enclosure



United States Department of the Interior **July BUREAU OF RECLAMATION**

DURANGO PROJECTS OFFICE P.O. BOX 640 DURANGO, COLORADO 81302-0640

REFER TO: 123.8

JUL - 2 1986

Mr. Roger Anderson Oil and Gas Commission P.O. Box 2088 Santa Fe, New Mexico 87504-2088

Dear Mr. Anderson:

As a result of your telephone conversation with Jack Generaux, I am providing you the following information on flowing wells:

- Well in T32N, R19W, sec. 29 or 32 flowing .06 to .08 ft 3 /sec. at 6,270 mg/1 T.D.S.
- b) Well in T29N, R9W, sec. 18 MWNESW with standing water at 34,000 micromhos specific conductance.
- Seep or well in T31N, R20W, sec. 26 NWNWNE with a small flow at 3,440 mg/1 T.D.S.

We believe these may be abandoned wells. If you have additional information on these or other wells that may be discharging salty water or have any questions, please contact Jack at 303-247-0247.

Sincerely yours,

W. Mortin Rocke

ACTING FOR Rick L. Gold

Projects Manager

Attachment



STATE OF NEW MEXICO

STATE ENGINEER OFFICE SANTA FE

S. E. REYNOLDS STATE ENGINEER BATAAN MEMORIAL BUILDING STATE CAPITOL SANTA FE, NEW MEXICO 87503

January 29, 1987

Mr. David G. Boyer Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87504-2088

Dear Dave:

Herewith is a copy of the Department of the Interior's Progress Report No. 13, "Quality of Water Colorado River Basin." Your attention is invited to the discussion of the San Juan River Unit at pages VII-28 and 29, because some oil industry problems are discussed there.

Best regards,

Sincerely,

S. E. Reynolds State Engineer

SER:pt
Attachment

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NEW MEXICO OIL CONSERVATION COMMISSION REQUEST FOR ALLOWABLE AND

Form C-104 Supersedes Old C-104 and C-110 Effective 1-1-65

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cc: Operator

File

Proration - El Paso

Operator Farmington & Denver Oil Conservation Commission – 2

EL PASO NATURAL GAS COMPANY POST OFFICE BOX 990 **FARMINGTON, NEW MEXICO**

NOTICE OF GAS CONNECTION	DATE	May 10, 1973
THIS IS TO NOTIFY THE OIL CONSERVATION	COMMISSION THAT CO	NNECTION FOR PURCHASE OF
GAS FROM <u>Amoco Production Company</u> Operator	Candelaria Gas Well N	Com. #1
87-602-01 11878-8 Meter Code Site Code	Well Unit	18-29-9 S-T-R
Aztec Pictured Cliff Pool	El Paso Natural Name of l	Gas Company Purchaser
WAS MADE ON April 30, 1973, Date	FIRST DELIVERY M	ay 8, 1973 Date
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OIL CONSERVATION COMMIN.	<u>Chief Dispat</u> Title	cher



5-24-73-29

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NO. OF COPIES RECEIVED	3		Form C-103
DISTRIBUTION			Supersedes Old C-102 and C-103
SANTA FE	1 .	NEW MEXICO OIL CONSERVATION COMMISSION	Effective 1-1-65
FILE	/		•
U.S.G.S.			5a. Indicate Type of Lease
LAND OFFICE			State Fee. X
OPERATOR			5. State Oil & Gas Lease No.
			
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CONDITIONS OF APPROVAL

NEW MERICA OIL CONSERVATION CO WELL LOCATION AND ACREAGE DEDICA

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., STATE OF NEW MEXICO . ENERGY AND MINERALS DEPARTMENT

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DISTRIBUTION		
SANTA FE	T	
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U.S.G.S.		
LAND OFFICE		

ONSERVATION DIVISION

Form C-103 Revised 10-1-78

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501 5a. Indicate Type of Lease Fee y 5. State Oil & Gas Lease No. OPERATOR SUNDRY NOTICES AND REPORTS ON WELL'S.

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIS
USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS 7. Unit Agreement Name WELL X Name of Operator 8. Farm or Lease Name Amoco Production Company Valencia Gas Com "B" 9. Well No. .. Address of Cperator 501 Airport Dr., Farmington, NM 'M۲'-Location of Well 10. Field and Pool, or Wildcat Basin Dakota/Blanco MV 1670 South West 15. Elevation (Show whether DF, RT, GR, etc.) 12. County 5537' GL San Juan Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: Completion Operations

17. Describe Proposed or Completed Operations (Gearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103. Ol-

Completion operations commenced on 3-1-82. Total depth of the well is 6552' and the new plugback depth is 6494'. Perforated intervals from 6456'-6458' with 4 spf, 6412'-6426', 6396'-6408' with 2 spf, a total of 84 .5" holes. Perforated intervals 6338'-6346' (next day due to misfire problems) with 2 spf, a total of 16 .5" holes. Fraced the Dakota interval with 92,000 gallons of frac fluid and 288,000 pounds of 20-40 sand. Perforated Mesaverde intervals from 4327'-4328' with 4 spf, a total of 4 .5" holes. Cemented with 243 sx class "B" neat cement. Perforated Mesaverde intervals from 3664'-3665' with 4 spf, a total of 4 .5" holes and squeezed off with 200 sx Class "B" neat cement. Perforated Mesaverde intervals from 4270'-4278', 4290'-4296', 4305'-4312', 4320'-

IDITIONS OF APPROVAL, IF ANY:		
*OVED BY	SUPERVISOR DISTRICT TO 3	APR 1 9 1982
100 E Zawser	TITLE Dist. Admin. Supvr.	DATE 4/14/82
I hereby certify that the information above is true and	ubing at 4318. Released the rig of	n 3-26-82.
gallons of frac fluid and 196	les. Frac Mesaverde intervals 3926	'-3664' with 137,000
30/4 , 3000 -3/00 , 3/10 -3/3	and 73,000 pounds of 20-40 sand. Poly 2', 3736'-3746', 3786'-3794', 3884'	-20021 20101 20261

STATE OF NEW MEXICO . ENERGY AND MINERALS DEPARTMENT

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DISTRIBUTION		
SANTA FE	1	
FILE		
U.S.G.S.		
LAND OFFICE		

OI ONSERVATION DIVISION

DISTRIBUTION	P. O. BO	X 2088	Revised 10-1-78
SANTA FE	SANTA FE, NEV	V MEXICO 87501	Keyisca
FILE			5a. Indicate Type of Lease
U.S.G.S.			State Fee X
LAND OFFICE			
POTATOR	;		5. State Oil & Gas Lease No.
	Y NOTICES AND REPORTS OF FOR FOR FOR PLUC ON FOR PERMIT - " (FORM C-101) FOR SE		
OIL GAS WELL X	OTHER-	The State of the s	7. Unit Agreement Name
Name of Sperator			8. Farm or Lease Name -
Amoco Production Compa	iny		Valencia Gas Com "B"
. Address of Operator			9. Well No.
501 Airport Drive, Far	mington, NM 87401		1M
. Location of Well			10. Field and Pool, or Wildcat
	570 FEET FROM THE South	LINE AND 1560 FEET	Basin Dakota/Blanco MV
THE West LINE, SECTION	18 TOWNSHIP 29N	RANGE 9W	MPM. (())
mmmm	(5)	DE PT CP 1	12. County
	15. Elevation (Show whether 5537 'G.L.		San Juan
6. Check A	ppropriate Box To Indicate N		r Other Data
NOTICE OF IN	•••		JENT REPORT OF:
NOTICE OF IN	TENTION TO:	3063200	CENT REPORT OF.
. —	<u></u>	· -	ı —
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	· .	COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING	CHANGE PLANS	CASING TEST AND CEMENT JOB	
	:	OTHER Spud and Set	Casing
OTHER			
	rations (Clearly state all pertinent deta	ails, and give pertinent dates, incl	uding estimated date of starting any proposed
work) SEE RULE 1103.			
			3" 48 pound surface casing
at 410' on 12-19-81, an	nd cemented with <u>810</u> sx	of Class "B" neat cen	nent containing 2% CaCl2.
Circulated 35 sacks of	cement to the surface.	Drilled a 12-1/4" ho	ole to 2405'. Set 9-5/8"
32.30 pound intermediat	te casing at 2404' on 2-	27-81, and cemented w	ith 500 sx of Class "B"
	65:35 POZ, 6% gel, 2 po		
			Drilled a 8-3/4" hole to
	 -		
	26 pound production cas	sing at 6552° on 1-10-	-82, and cemented in two
stages as follows:			
1) Cement with 240 sx	of Class "B" neat cemen	it containing 50:50 PC	OZ, 6% gel, 2 pound medium
tuf plug per sack, and	.8% fluid loss additive	e. This was tailed in	with 100 sx of Class "B"
neat cement. 34	0		
neat cement. 34	X C		
	=	t containing 65:35 PC	07, 6% gel, 2 pound medium
			with 100 sx of Class "B"
			is 750' below the surface.
near cement. No cement	was circulated to the	surface. Cement top	is 750° below the surface.
Mha Dii haal	//17!		
The DV tool was set at	1-10-82	`n .	
The rig was released or	1 1-10-82.	- C	
. I hereby certify that the information ab	**	f my knowledge and halief	
. I hereby terriny that the information at	, ove 18 true and complete to the best o.	THOWARDE BILL DELLEI.	
lis de la			JAN 1 9 1982
INED_C-C-900	VOCIA TITLE DIS	t. Admin. Supvr.	DATE
	7		
7170)		JAN 20 1982
-5~L/W	04 / TITLE CIT	PERVISOR DISTRICT 翌 3	MATE 7718 2 () 1000
NOTIONS OF ARRESTAL IS AND	7		1302

NO. OF COPIES RECEIVED DISTRIBUTION SANTA FE	NE	EW MEXICO OIL CONSE	RVATION COMMISSION	Y Fo	45-2495 orm C-101 evised 1-1-65	7
U.S.G.S. LAND OFFICE	·				A. Indicate Type of STATE.	FEE X
OPERATOR ADDI (CATI	ON SOD DEBUT T	CO DOÙ L. DEEDEN	OD BLUG BACK			
APPLICATION APPLIC	UN FUR PERMIT I	O DRÍLL, DEEPEN,	OR PLUG BACK	7.	. Unit Agreement N	1ame
b. Type of Well OIL GAS GAS		DEEPEN			, Farm or Lease No	
OIL GAS WELL X 2. Name of Operator	OTHER		ZONE		Valencia Gas	s Com "B"
AMOCO PRODUCTION 3. Address of Operator	COMPANY				1.M 0. Field and Pool	or Wildcat
501 Airport Driv	e, Farmington	NM, 87401			Basin Dakota	
4. Location of Well UNIT LET	TER K	LOCATED 1670 /	EET FROM THE South	LINE		(HARELL)
AND 1560 FEET FROM	м тне West	LINE OF SEC. 18	WP. 29N RGE. 9W	NMPM 3	34 4 4 1	
					2. County	
					San Juan	HHHH
				9A. Formation	ŀ	tary or C.T.
21. Elevations (Show whether D	F.RT. etc.) 21A Ki	nd & Status Plug. Bond	6750 Da	akota/Mesa	averde Ro 22. Approx. Date W	otary
		tatewide	unknown	1	as soon as i	
23.	<u> </u>	PROPOSED CASING AND			IS SUOIL AS I	<u>jeimitten</u>
	T-:			T		
SIZE OF HOLE 17 1/2"	SIZE OF CASING	WEIGHT PER FOOT	300'	 		EST. TOP
12 1/4"	9 5/8"	36#	2300'	530 700	1	urface urface
8 3/4"	7''	23#	6750'	950	· i	urface
Mesaverde reservemud. The well with Completion design completion. Among for blowout prevenues are producted to the completion of the compl	ill then be drain will be based to standard lenter design. the well location well is unless	illed to TD with don open hole lolowout preventi	a low solids no ogs. Copy of a con will be employed and the resemble to El contract No. 175 Dakota to El Pascontract No. 567 contract No. 567	ondisperse ll logs vi oyed; sel erve pioné Paso Natu 568; so Natural	AR 26 1981 CON. COM.	em. Lupon drawing
N ABOVE SPACE DESCRIBE P IVE ZONE. GIVE BLOWOUT PREVEN	ROPOSED PROGRAM:	PROPOSAL POTOEEPEN O	R PLUG BACK, GIVE DATA ON	PRESENT PRODU	STIVE ZONE AND PRO	POSED NEW PRO
hereby certify that the informati	ion above is true and co	•	·		- / /-	
(This space for	State Use)	Tule District 1	ingineer	Dat	te <u>3/23/8</u>	<u>}1</u>
PPROVED BY	lo Muso	DEPUTY OIL & (GAS INSPECTOR, DIST.	#3 DA	MAR 26	1981
ONDITIONS OF APPROVALJU	LANY: 35 3			_		

FORM 24-11

NEW MEXICO OIL CONSERVATION COMMISSION WELL LO TION AND ACREAGE DEDICATION PLT

AMOCO PRODUCTION COMPANY VALENCIA GAS COM "B" -1 M				All distances must be	from the outer bound	aries of the Section		· · ·
It states Section Towards Passage Construct with 18	erator	·····			Lease			Weil No.
It states Section Towards Passage Construct with 18	AMOCO PR	ODUCTION C	OMPANY		VALENCIA	GAS COM "B"		1 M
1500 Test tens to with 100 1500 Test tens to South 100 Test tens t	it Letter			vnship	" -		•	
1500 Test tens to with 100 1500 Test tens to South 100 Test tens t	К	18		29N	9W	Sar	า ปืบลท	
1670 test toms the SOUTH time and 2560 test from the West time conditions of the state of the st						Dai		
Dack at Mesaverde Basin Dekota/Blanco Mesaverde Basin Dekota	-		. South	11	1560	fast form at	West	Non
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? [Note: Note: Note: It is the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary). Note: It is the owners and tract descriptions which have actually been consolidated. (Use reverse eide of this form if necessary). Note: Note: It is the owners and tract descriptions which have actually been consolidated. (Use reverse eide of this form if necessary). Note:					·	Audi Hom the		· · · · · · · · · · · · · · · · · · ·
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? [No all maswer is "yea," type of consolidation	•					ota/Blanco M		
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, here the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? Yes						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? Yes	1. Outline	the acreage	dedicated	to the subject w	rell by colored p	encil or hachure	marks on th	e plat below.
dated by communitization, Infrace-pooling, etc? Yes			ase is dec	licated to the we	ll, outline each s	nd identify the	ownership th	ereof (both as to working
If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. If CERTIFICATION 1 hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Wanne 1 hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Wanne 1 hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Wanne 1 hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Wanne 2 hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Wanne 2 hereby certify that the information contained herein is true and conset. AMOCO FEE AM				-		well, have the	interests of	all owners been consoli-
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this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. It CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Whene W. L. PETERSON Position DISTRICT ENGINEER Commany AMOCO FEE AMOCO	يرو و ليهنا			7 , -78-		<u></u>		
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. 16				ers and tract des	criptions which h	ave actually be	en consolida	ted. (Use reverse side of
forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the Information contained herein is true and complete to the best of my knowledge and belief. DESTINATION I hereby certify that the Information contained herein is true and complete to the best of my knowledge and belief. Name W. L. PETERSON Position Date 3/23/51 AMOCO FEE AMOCO		•						
**Non-Standard Dakota Gas Unit Approved by NMOCt Order No. R-2046, Tract E. **Non-Standard Dakota Gas Unit Approved by NMOCt Order No. R-2046, Tract E. **Non-Standard Dakota Gas Unit Approved by NMOCt Order No. R-2046, Tract E. **Non-Standard Dakota Gas Unit Approved by NMOCt Order No. R-2046, Tract E. **Non-Standard Dakota Gas Unit Approved by NMOCt Order No. R-2046, Tract E. **Non-Standard Dakota Gas Unit Approved by NMOCt Order No. **Non-Standard Dakota Gas Unit Approved by NMOCt Order No. **Non-Standard Dakota Gas Unit Approved by NMOCt Order No. **Non-Standard Dakota Gas Unit Approved by NMOCt Order No. **Non-Standard Dakota Gas Unit Approved by NMOCt Order No. **Non-Standard Dakota Gas Unit Approved by NMOCt Order No. **Non-Standard Dakota Gas Unit Approved by NMOCt Order No. **Non-Standard Dakota Gas Unit Approved by NMOCt Order No. **Non-Standard Dakota Gas Unit Approved by NMOCt Order No. **Non-Standard Dakota Gas Unit Approved by NMOCt Order No. **Non-Standard Dakota Gas Unit Approved by NMOCt Order No. **Non-Standard Dakota Gas Unit Approved by NMOCt Order No. **Non-Standard Base of Unit Gas								
AMOCO FEE	forced-p	ooling, or othe	erwise) or 1	intil a non-standa	rd unit, eliminati	ng such interest	s, has been	approved by the Commis-
**Non-Standard Dakota Gas Unit Approved by NMOCC Order No. R-2046, Tract E. DESCRIPTION Name W. L. PETERSON Position DISTRICT ENGINEER Company AMOCO FEE AMOCO F		-					-	•
**Non-Standard Dakota Gas Unit Approved by NMOCC Order No. R-2046, Tract E. DESCRIPTION Name W. L. PETERSON Position DISTRICT ENGINEER Company AMOCO FEE AMOCO F							1	
Approved by NMOC Order No. R-2046, Tract E. DENOTED TO SEE THE STATE OF THE POSITION AND DARROW FEE AMOCO F	16			· ·	1	181	1	CERTIFICATION
Approved by NMOC Order No. R-2046, Tract E. DENOTED TO SEE THE STATE OF THE POSITION AND DARROW FEE AMOCO F		I		·	1		l	
Approved by NMOC Order No. R-2046, Tract E. DENOTED TO SEE THE STATE OF THE POSITION AND DARROW FEE AMOCO F	1	, '		**Non-Standar	d Dakota Gas	Unit	I hereby c	ertify that the Information con-
R-2046, Tract E. DESCRICT SECURE STATE SECURE STATE SECURE SECUR		l		•			1	·
AMOCO FEE	l	!		1		j	I	•
W. L. PETERSON Position DISTRICT ENCINEER Company AMOCO PROPRICTIMADO PANY. Date 3/23/51 Little 11 AMOCO FEE MAR 26 1991 I hereby certify Mar his well reculton shown on this plat also platted from field notes of actual surveys gods by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. ANN DARROW FEE AMOCO FEE Fred Range 1974 Fred Range	1	52				· /]		7 1
W. L. PETERSON Position DISTRICT ENCINEER Company AMOCO PROPRICTIMADO PANY. Date 3/23/51 Little 11 AMOCO FEE MAR 26 1991 I hereby certify Mar his well reculton shown on this plat also platted from field notes of actual surveys gods by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. ANN DARROW FEE AMOCO FEE Fred Range 1974 Fred Range)	I ES		ED	1		(1)	ne It . team
DISTRICT ENGINEER Company AMOCO PRODUCTION DO PANY. Date 3/23/81 Education 3/23/81 I hereby certify that the well location shown on this plot was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. ANN DARROW FEE AMOCO FEE AMOCO FEE AMOCO FEE AMOCO FEE AMOCO FEE AMOCO FEE Fred Registery Englessions Engineer and Lind Surveyor Fred Registery Englessions Englessions Fred Registery Englessions Englessions Englessions Fred Regis	1	I C		TO	l	, , , , , , , , , , , , , , , , , , ,	Nome /	× - 17 - 1
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DISTRICT ENGINEER Company AMOCO PRODUCTION DO PANY. Date 3/23/81 Education 3/23/81 I hereby certify that the well location shown on this plot was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. ANN DARROW FEE AMOCO FEE AMOCO FEE AMOCO FEE AMOCO FEE AMOCO FEE AMOCO FEE Fred Registery Englessions Engineer and Lind Surveyor Fred Registery Englessions Englessions Fred Registery Englessions Englessions Englessions Fred Regis		1 H B		LIC	1	. [11 01/0 V.1
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AMOCO FEE AMOCO FEE S/2 Sec 18, 32 3 1 MAR 2 6 1991 I hereby certify that the well location shown on this pid was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. ANN DARROW FEE AMOCO FEE AMOCO FEE AMOCO FEE AMOCO FEE AMOCO FEE AMOCO FEE Fred Resistant Fracesjoint Rechains and Lind Surveyor.		1.			.1			L DUCTAEFK
AMOCO FEE S/2 Sec. 18, 73.1 AMOCO FEE AM	-		7777	1,,,,,,				OBUCIONSTOPANY
AMOCO FEE S/2 Sec 18, 7-1-4 V AMOCO FEE Fred AMOCO FEE Fred AMOCO FEE Fred Fred AMOCO FEE Fred Fred Fred AMOCO FEE Fred AMOCO FEE Fred AMOCO FEE Fred		1	5/2	Sec. 18	1	4		
MAR 2 6 1591 I hereby certify that the well location shown on this plat was platted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. ANN DARROW FEE AMOCO FEE Fred AMOCO FEE AMOCO FEE Fred Fred AMOCO FEE Fred AMOCO FEE AMOCO FEE Fred AMOCO FEE Fred AMOCO FEE Fred AMOCO FEE AMOCO FEE AMOCO FEE AMOCO FEE AMOCO FEE Fred AMOCO FEE AMOCO FEE Fred AMOCO FEE Fred AMOCO FEE Fred AMOCO FEE Fred AMOCO FEE AMOCO F	1/	. MOGO PET			: [\]	4	{	TALLET LLJ \
AMOCO FEE Fred Amoco Fee Fred Amoco		ANOCO FEE						MAD 2 & 1001
ANN DARROW FEE ANIOCO FEE AN	ĺ.	1	5/2	Sec 18, 3.33	シーカー	1	1	
AMOCO FEE AMOCO FEE AMOCO FEE CIL C. ANN DARRON FEE AMOCO FEE Fred Registere Freesign the English and Lind Streeper and		•		A line and a second	. 1	1	1 hereby	certify That the well lecotion
AMOCO FEE AMOCO FEE AMOCO FEE ANN DARROW FEE AMOCO FEE AMOCO FEE AMOCO FEE AMOCO FEE AMOCO FEE AMOCO FEE Fred Fred Fred AMOCO FEE AMOCO FEE Fred F		1.		-AMOC	O FEEL	1	1 .	
AMOCO FEE 1560! ANN DARROW FEE AMOCO FEE	-	ter the second	117/11	1	. 1001	1	(
ANN DARROW FEE AMOCO FEE AMOCO FEE AMOCO FEE AMOCO FEE AMOCO FEE AMOCO FEE Fred Registers freesions Engineer and Lind Surveyor?	ľ	AMOCO FEE			, - The 612 M	1	1	
ANN DARROW FEE AMOCO FEE Fred Register Free Re				1 OFF 600 2	ا ا الله الله الله الله الله الله الله	'.1	ì	·
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AMOCO FEE AMOCO FEE March 19 1751 Registere processional Englisher and Lind Surveyor 3. 15 Fred Register Transfer Tran	<u>E</u>	1		L	_ 1/		1	
AMOCO FEE AMOCO FEE March 19 1751 Registere processional Englisher and Lind Surveyor 3. 15 Fred Register Transfer Tran	17.	1, , , , , ,	1.11.	T	7	~ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	[
AMOCO FEE AMOCO FEE March 19 1751 Registere processional Englisher and Lind Surveyor 3. 15 Fred Register Transfer Tran	\	• • • • • • • • • • • • • • • • • • •	. '		o 1	<i>3</i> 1		
Registere Erolessional Engineer and Lind Surveyor 2.	\^ANN	PARROW FEB	ō	1	-1	<i>A</i>	1	STRED LAND ST
Is Fred Repair 19.	E)	1	67	AMOCO FEE	AMOC) FEE		The state of the s
is Fred Recording	I,	1	H	1.	1	4	1 ' H ~	1
	I.			I	\mathcal{K}	1	and Lind	Surveyor of
	I.	1	Ì	I.	, '	·1	Sec. 1/2	The contract of the contract o
Centificate No. 2 years	.ìs	1		1000	andin.	. 18	Fred R	whom the
3550	Lannage			-5;-1************************************	1		1	Co & XEDD.

5 USGS 1 Hesa 1 h Form 5-35H (May 1963) DEPARTM	UNITED STATES MEN OF THE IN	TERIOR	SUBMIT IN TRIPI (Other instructions verse side)	Te- But 5. LEASE DI	orm approved No adget Bureau No assignation and a	SERIAL NO.
	CES AND REPOR	RTS ON	WELLS a oncerent reservoir.		<u>-0503-9802</u> n, allottee or t	
1. OIL GAS WELL OTHER 2. NAME OF OPERATOR	Dry Hole	<u>₹</u>	<u> </u>	<u>.</u>	LEASE NAME	
3. ADDRESS OF PRATTOPICUM COMPA				9. Haya i	3 32 · · · · · · · · · · · · · · · · · ·	2
4. LOCATION OF WELL (Report FOURIDITY See also space 17 below.) At surface COD * (sl 1980* ful	early and in accordance wi	th any State 1	equirements.*	- Wilde	R, M., OR BLK. AT	
14. PERMIT NO.	15. ELEVATIONS (Show whe	ether of RT. GR	etc.)	Sec.	32. T32H.	R19W
	5094' Gr.	- ,, -		San J		M.
16. Check Ap	propriate Box To India	rate Nature	of Natice Report			. /
NOTICE OF INTEN				BSEQUENT REPORT () .	
FRACTUBE TREAT SHOOT OR ACIDIZE A	ULL OR ALTER CASING ULTIPLE COMPLETE BANDON* HANGE PLANS		WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZING (Other) (Note: Report re Completion or Rec	A	EPAIRING WELL LITERING CASING BANDONMENT* ompletion on We and Log form.)	XX
17. DESCRIBE PROPOSED OR COMPLETED OPER proposed work. If well is direction nent to this work.) This well was plugge 1. Spotted 30 sx.	nally drilled, give subsurfac) in the	d measured and true vo	ertical depths for a	ill markers and	zones perti-
2. Spotted 30 sx.	cement 6300° to	6400'.		ند و در است. د و به هم هم است.	T.EA	1 9 1969
·	cement 3500' to		1	REC	OIL CO	ON. COM. ST. 3
	cement 2600' to			FEB	CICAL SURVE	
6. 10 sx. surface		130 .		U. S. GEOLI FARMING	STON, N. M.	
	le marker kälä e	and clear	med up location			
18. I hereby certify that the foregoing is SIGNED Original signed by		Engine	er	DATE	2/17/69	
(This space for Federal or State office	e use)					
APPROVED BY CONDITIONS OF APPROVAL, IF AN	TITLE			DATE		-

2 (2) 25 Fi858	Havajo i File	သ				
Form 9-331 (May 1963)		SUBMIT IN TRIPLETE.	Budget Bureau No. 42-R1424.			
DEPARTMENT OF THE INTERIOR verse side) GEOLOGICAL SURVEY			5. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-9802			
CHARDY			6. IF INDIAN, ALLOTTEE OR THIBE NAME			
	IOTICES AND REPORTS ON		1			
	proposals to drill or to deepen or plug back in PLICATION FOR PERMIT—" for such propose	(s.)	Navajo:			
1. OIL GAS G	ze Ory Hole	- ~	7. UNIT AGREDMENT NAME			
WELL WELL OTH 2. NAME OF OPERATOR	ER DIT HOLE		8. FARM OR LEASE NAME			
Hasa Petroleum Com	any		Navajo 32			
3. ADDRESS OF OPERATOR			9. WELL NO.			
ica 231, Farmington	tion clearly and in accordance with any State	Moguinem on to B	10. FIELD AND POOL, OR WILDCAT			
See also space 17 below.) At surface	tion clearly and in accordance with any State	requirements.	1			
			11. SEC., T., B., M., OR BLK. AND			
			SURVEY OR AREA			
660' (s) 19 50' fu l			/Sec. 32, 1324, R199			
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, C	R, etc.)	12. COUNTY OR PARISH 13. STATE			
	5094° Gr.		San Juan H. H.			
^{16.} Checl	c Appropriate Box To Indicate Natur	e of Notice, Report, or C	Other Data			
NOTICE OF	INTENTION TO:	SUBSEQU	ENT REPORT OF:			
TEST WATER SHUT-OFF	PULL OB ALTER CASING	WATER SHUT-OFF	REPAIRING WELL			
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING			
SHOOT OR ACIDIZE	ABANDON®	(Other)	ABANDONMENT*			
(Other)		(NOTE: Report results	of multiple completion on Well etion Report and Log form.)			
17. DESCRIBE PROPOSED OR COMPLETE	D OPERATIONS (Clearly state all pertinent detairectionally drilled, give subsurface locations	ils, and give pertinent dates.	including estimated date of starting any			
nent to this work.) *		and measured dud that vertice				
	•					
Propose to blue and	abandon this well as fells	缺滤:				
l. Spot 30 sx. c	ement 6700' - 6800'.	COPPIN				
5 Cook 23 du o	C1005 C1005	/ PEULIVEDY				
2. Spot 33 sx. c	essur 0330 6430."		N - 용용질 출활 시작 위치하는 시기			
3. Spot 30 sx. c	ement 3500' - 3600'.	DEC 26 1968	★ 不可能的 表示 (1) 表示 (2) 表示 (2)			
		lai oou oou				
4. Spot 30 sx. c	essent 2600' - 2700'.	OIL CON. COM.				
6 6 mm 4 60 mm m	TOOL WOLL	DIST. 3	La sometimes			
6. Spot 90 sx. c	esent 600' - 750'.		A STATE OF THE STA			
6. 10 Sx. COME	surface olug.	···				
	7	:	UEC 2.4 1333			
frect dry hole park	er and clean up loaction.		SHOW PURKET			
			U. S. GEOLÓGICAL SURVE			
			and the second s			
18. I hereby certify that the forego	ing is true and correct					
SIGNEDOriginal signe	ed by T. A. Dugarritle	Engleer	DATE 12/20/68			
			DATE LEGISTE			
(This space for Federal or Stat	e omce use)					
APPROVED BY	IF ANY:		DATE			
CONDITIONS OF AFFROYAL,	AD GATA.		s - 1			

5 USGS 1 Mesa 1 Nav. 1 File Form 9-330 (Kev. 5-63) SUBMPT IN DUPLIC ED STATES Form approved. Budget Bureau No. 42-R355.5. (See other in-DEPARTMENT OF THE INTERIOR structions on reverse side) 5. LEASE DESIGNATION AND SERIAL NO. GEOLOGICAL SURVEY 14-20-0603-9802 6. IF INDIAN, ALLOTTEE OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG* diavajo 1a. TYPE OF WELL: 7. UNIT AGREEMENT NAME DRY X Other - t* - - - -2 b. TYPE OF COMPLETION: D . PLUG D S. FARM OR LEASE NAME Other 2. NAME OF OPERATOR Navajo 32 9. WELL NO. Hasa Petroleum Company VED 3. ADDRESS OF OPERATOR . 10. FIELD AND POOL, OR WILDCAT BOX 234. Farmington, N. H.
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) - : 1986 dcat At surface I., OR BLOCK AND SURVEY ... OR AREA At top prod. interval reported below U. S. GEOLOGICAL SURVEY FARMINGTON N. M. At total depth R194 COUNTY OR PARISH 14. PERMIT NO. DATE ISSUED San Juan 17. DATE COMPL. (Ready to prod.) 16. DATE T.D. REACHED 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5094' Gr. ٠. 20. TOTAL DEPTH, MD & TVD 12/19/68 P & A 12/20/68 23. INTERVALS ROTARY TOOLS CABLE TOOLS 21. PLUG, BACK T.D., MD & TVD IF MULTIPLE COMPL.. HOW MANY DRILLED BY PAA 25. WAS DIRECTIONAL 24. PRODUCING INTERVAL(S), OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)* SURVEY MADE. Yes P&A
26. TYPE ELECTRIC AND OTHER LOGS RUN WAS WELL CORED 2 Ho Schlumberger IES & Density 28. CASING RECORD (Report all strings set in well) CASING SIZE WEIGHT, LB./FT. CEMENTING RECORD DEPTH SET (MD) HOLE SIZE AMOUNT PULLED 225 sx. 182 17 3/4" Hone 13 3/84 40# LINER RECORD TUBING RECORD SIZE BOTTOM (MD) SCREEN (MD) TOP (MD) SACKS CEMENT* SIZE DEPTH SET (MD) PACKER SET (MD) None Kone 31. PERFORATION RECORD (Interval, size and number) ACID, SHOT, FRACTURE, CEME DEPTH INTERVAL (MD) AMOUNT AND FEB 1 9 1969 None None CON, COM 33.* PRODUCTION DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump) WELL STATUS (Producing or P&A DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR OIL-BBL. GAS-MCF. WATER-BBL. GAS-OIL RATIO TEST PERIOD CALCULATED 24-HOUR BATE CASING PRESSURE OIL-BBL. GAS-MCF. WATER-BBL. OIL GRAVITY-API (CORR.)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

Original signed by T. A. Dugan TITLE

Engineer

DATE

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

35. LIST OF ATTACHMENTS

TEST WITNESSED BY

INSTRUCTIONS

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 office. See instructions on items 22 and 24, and 33; below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 358

should be listed on this form, see item 35.

Item 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 or Federal office for specific instructions.

Item 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.

Items 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.

1tem 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION TOP	воттом	DESCRIPTION, CONTENTS, ETC.	Name)P·
			NAME	MEAS. DEPTH	TRUE VERT. DEPTE
			LOG TOPS		
	:		Greenhorn Graneros Dakota	510° 575° 618°	
			Norrison Chinle De Chelly	766* 2664* 3565*	
			Organ Rock Honoker Trail Ismay	3832* 5311* 6124*	
			Desert Creek Akah Barker Creek Pinkerton Trail	6242' 6435' 6705' 6810'	

- 🐧 5 0000 1 Misa 1 Ma	vajo F112		
Form 9-331	UNITED STATES	SUBMIT IN TRIPL	TE. Form approved.
(May 1963) DEPART	MENT OF THE INTER	OR (Other instructions on verse side)	re- Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO.
	GEOLOGICAL SURVEY		14-20-9603-9092
CLIVIDBY NO.	TICES AND REPORTS (ක් ක්	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	osals to drill or to deepen or plug b CATION FOR PERMIT—" for such p	roposals.)	Raynja 113 H Park
1. OIL GAS		17. 50	7. UNIT AGREEMENT NAME
WELL WELL OTHER	Gry dole	· · · · · · · · · · · · · · · · · · ·	
2. NAME OF OPERATOR			8. FARM OR LEASE NAME
3. ADDRESS OF OPERATOR	<u> </u>		9. WELL NO.
. w .15. Farmington.	9g 9g		
4. LOCATION OF WELL (Report location		State requirements.*	10. FIELD AND POOL, OR-WILDCAT
See also space 17 below.) At surface			San Garaga a tame
			11. SEC., T., R., M., OB BLK. AND T. SURVEY OR AREA
000' fal 1980' fal			Can do sponis and
**************************************			Sec. 325 13242 Right
14. PERMIT NO.	15. ELEVATIONS (Show whether DF	, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE
	5094° Gr.		देशत वेष्टवार म् । सि. सि.
16. Check A	ppropriate Box To Indicate N	lature of Notice, Report, o	or Other Data
NOTICE OF INTE			SEQUENT REPORT OF:
		1	THE STATE OF THE S
TEST WATER SHUT-OFF FRACTURE TREAT	PULL OR ALTER CASING MULTIPLE COMPLETE	WATER SHUT-OFF FRACTURE TREATMENT	REPAIRING WELL
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ABANDON MENT*
REPAIR WELL	CHANGE PLANS	(Other)	
(Other)		(Norg: Report res	ompletion Report and Log form.)
17. DESCRIBE PROPOSED OR COMPLETED OF	ERATIONS (Clearly state all pertinen		ates, including estimated date of starting any rtical depths for all markers and zones perti-
nent to this work.) *	onany drined, give subsurface local	nous and measured and true ve	relical depths for all markers and zones perti-
3 6			
is billed hills, Mai	1/08, 471112 6 1/ 3/4"	note to 188', rea	6 Jts. 13 3/8" 0.0., 431,
03 3186 653. 586 (ecent roturns to surf	with 225 SX. Class	"A" 25 Cacl. P.O.B. 5 A.K.
sivelyon - good C	ement intains to enti-	ase.	
2. Prilled Il' hole	to 2717'. Encountere	d coall amount water	P at 261614
w	no mais e dinormalistic	a tacket mediant but bl	
3. Reduced hole to 7	7/8" - drilled to to	tal depth of 5780'	
4. San D.S.T. 41, 63	70° - 6395°. G.T.S.	in 5 min. – gas gai	iged 45 NCF at end of test.
Recovered 210° gas	s cut and. I.H. 3145	ps1 - I.F. 80 ps1	- I.S.I. 1517 pst -
F.F. 30 ps1 - F.S.	.I. 1597 pst – F.H. 3	145 ps1.	
உரு நெறு நாகும் அத்த அது			
a. Kan d.J.I. #2. 6/	30' - 88/0' - week bli	ow throughout test.	kecovered 136 black
F F 161 ce4 _ F 9	5.1. 886 ps1 - F.H. 3	412 ps1 - 1.r. 10/	psi - 1.5.1. 1932 psi -
1.7. 191 pat - r.:).s. coe psi - r.a. 2	ric psi.	
		/off	HIM
		/ 1146	LIVIA
		000	
		nrc 5	6 1968
19 T housen go-118- 4b-4	In the and accord	1011	
18. I hereby certify that the foregoing		out con	COM. 12/25/68
SIGNED Original signed by	T. A. Dugen TITLE	dylacer Dist	3 DATE 11/20/00
(This space for Federal or State off	ice use)		
ADDDOUGD DV	prizme to		DAME.
CONDITIONS OF APPROVAL, IF	ANY:		DATE
			AFR 9 1 -500

*See Instructions on Reverse Side

1. S. CTOLOGICAL SURVEY

(Other instr

UBMIT IN T

Form approved. Budget Burcau No. 42-R1425.

	1728				<u> </u>		
4]]?	3 5/6"	24#	2200	3*		500 sx.	
17"	13 3/8"	43/	180	31	2 2	200 sx.	1 2
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	OT SETTI	NG DEPTH	- 1	- QUANTITY OF CEMEN	TT.
23.	. P	ROPOSED CASING	G AND CEMENT	ING PROGRA	M 3		Light
33. U.F.						11/15/68	
5374' Gr.	Comics are; star, date, cwif				, j.	†	The Grant
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)	· · · · · · · · · · · · · · · · · · ·			1 7	22. APPROX. DATE WO	RK WILL START*
OR APPLIED FOR, ON TH	PRILLING, COMPLETED, HS LEASE, FT.		6900"		R	itary :	温度
18. DISTANCE FROM PROI	POSED LOCATION*		19. PROPOSED DEF	TH	20. ROTAE	Y OR CABLE TOOLS.	
PROPERTY OR LEASE (Also to nearest dr)	LINE, FT. g. unit line, if any)	660*	640		4		
15. DISTANCE FROM PROP- LOCATION TO NEARES	T		16. NO. OF ACRES	IN LEASE		F ACRES ASSIGNED	ž. 1.
	h - northeast S	nipivek, n.				San Juan	N. H.
							•
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POST	OFFICE*			12. COUNTY OR PARISH	
At proposed prod. zon	ne www imi	1000 101			3	Sec. 32, T32	ย ตัวเอน
	e 660' fs1	1980' ful			:	AND SURVEY OR AREA	
At surface	•		_	•	<u> </u>	11. SEC., T., R., M., OR	BLK2
	eport location clearly and		any State requir	ements.*)		Wildcat -	3 3 3
Box 234. Fave	aington, H. M.	87401			•	10. FIELD AND POOL, C	DR WILDCAT
3. ADDRESS OF OPERATOR					· · · · · · · · · · · · · · · · · · ·		
Masa Pe trole u	in Company			•	2	9. WELL NO.	
2. NAME OF OPERATOR				, 1 1, 101	·	Havajo 32	i i i i i i i i i i i i i i i i i i i
WELL A	VELL OTHER	-	ZONE	MULTIP Zone	LE D	S. FARM OR LEASE NA	мв
b. TYPE OF WELL	_				·	# 1 On On On	작성축
DR	ILL 🗗	DEEPEN E		PLUG BAG	CK 🗆	7. UNIT AGREEMENT N	AME
1a. TYPE OF WORK			>			Havajo	
APPLICATIO	N FOR PERMIT 1	ro drill, d	EEPEN, OR	R PLUG B	3ACK	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME
		<u></u>			 	14-20-0603-9	
GEOLOGICALISURVEY							
	DEPARTMENT	OF THE I	WERIOR			5. LEASE DESIGNATION	20364
	וויוט	ED SINIES	~	reverse s	ide)	4	4 1 - 1

Miesa Jans to drill 11" hole through the Entrada formation. If large water flow is encountered, we plan to set 8 5/8" csg. If water flow is not encountered we will not set 8 5/8" csg., but reduce size of hole to 7 7/8" and drill well to T.D. Missa till drill-stem test the Desert Creek formation and if commercial production is found, run 4 1/2" csg., perf. and complete well.



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or zone. If proposal is to drill or deepen directionally, give pertinent data on preventer program, if any.

Original signed by T. A. Dugan	Engineer	DATE 11/6/68
(This space for Federal or State office use)	APPROVAL DATE	
APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	TITLE	DATE

Form C-102 Supersedes C-128 Effective 1-1-65

		All distances must be	from the outer boundaries o	f the Section			
Operator MESA PETRO	I FUM CO. '		Navajo 872	Mov	Well No.		
Unit Letter	Section	Township	Range	Cempty	1:3		
N	32	32 North	19 West	San Juan			
Actual Footage Loc	ction of Well:		•	Wes	T		
Ground Level Elev.		outh line and	1980 fee	t from the	Dedicated Acreage:		
5094, ung	Penns	mation Y Van I AM	Wildcat		40 Acres		
		n cer					
1. Outline th	e acreage dedica	ted to the subject w	ell by colored pencil of	or hachure marks on	the plat below.		
	2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).						
		ifferent ownership is initization, force-pooli		have the interests of	of all owners been consoli-		
Yes	No If a	iswer is "yes;" type o	f consolidation		4		
**	. 44 99 31 .5	, ,					
	is "no," list the f necessary.)	owners and tract desc	riptions which have a	ctually been consoli	dated. (Use reverse side of		
	·	المانية المسالية	:-•		mmunitization, unitization.		
					n approved by the Commis-		
sion.		or until a non otalical	a unit, oriminating suc	en mereoto, nas bee	in approved by the Commis-		
	1		! !		CERTIFICATION		
	1						
	1		.1	i i	certify that the information con-		
	i i		1	1 1	erein is true and complete to the		
	i		FOR	11_	my knowledge and belief.		
	i		OFFILE	Origina	signed by T. A. Dugan		
				Name			
	ı I		AVOL		Thomas A. Dugan		
			191 8 YUV	68 Position			
	1		011 000) Gornanii	Engineer		
	i		COM. CO	M. Jompony	Mesa Petroleum Co.		
	1		DIST. 3	Date	resa recroteum co.		
	1				11/6/68		
		Sec. 32			F MEW.		
	I				and the second second		
P	t		i	1 hereb	certify that the Rell location		
\	. !		1	1 1	nithis planwas plants from field		
	P		1	1 1/ 1	actual surveys made by me or		
1			1	1 12 -5.1	r'supervision, and that the same		
1			Ì	1 1 9 4 1	and correct to the Dest of my		
1	1		1	Knowlea	ge and belief		
	1		U. S. B. R.	Maisson	William Com		
		•	S Powerline	Date Surve			
1			< 1 mg/ / / / / / / / / / / / / / / / / / /	1 1	er 9, 1968		
	80-		P	 	Professional Engineer		
1	1	ر ا	ì.	1 1	nd Surveyor		
	6		D	1	6 /		
				(809)	(a ho hant.		
				Certificate	No. 3602		