The Sinclair Oil and Gas #1 Mahaffey Federal well in Section 14-T20S-R33E, 660' FNL + 1980' FWL has produced 168,987 barrels of oil to 1/1/88. Volumetric calculations indicate this well would produce 87,138 barrels of oil leased on 40-acre drainage and 174,275 bbls based on 80-acre spacing. Therefore it is evident this well has effectively drained 80 acres. The following are the calculations:

	40 Acres	80 Acres
Rock Volume, Barrels per Acre	7758	7758
Average Porosity	13%	13%
Primary Recovery Factor	10%	10%
1-SW, %	60%	60%
Shrinkage Factor	.9	.9
Pay Thickness	40	40
Spacing Unit Area, acres	40	80
Estimated Primary Oil Recovery	87,138 bbls	174,275 bbls

Anticipated primary First Bone Spring sandstone recoverable reserves per well location are calculated as shown below, using volumetric analysis (Vo = $7758 \times \phi \times (1-Sw) \times Bo \times Re \times h \times a$):

	40 Acres	80 Acres
Rock volume, barrels per acre	7,758	7,758
Average Porosity	12.5%	12.5%
Primary Recovery Factor	10%	10%
1-Sw%	50	50
Shrinkage Factor	.9	.9
Pay Thickness	45	45
Effective Spacing Unit Area, acres	40	80
Estimated Primary Oil Recovery	78,550 bbls	157,099 bbls

Anticipated cost for drilling a First Bone Spring sandstone well in the Hat Mesa Bone Spring field is \$640,000.

```
Return on investment for 40-acre spacing: 75%NRI x 78,550bbls x $16.50/bbl x .925 (tax) = $899,152. Return on Investment = 1.4:1
```

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Return on Investment for 80-acre spacing: 75\%NRI \times 157,099bbls \times \$16.50/bbl \times .925 \text{ (tax)} = \$1,798,293. Return on Investment = 2.8:1
```

OIL CONSERVATION DIVISION

Strata EXHIBIT NO. 6

CASE NO. 9582

Form Chirties November (98.1) Pointerly (1971)	UNITED STA DEPARTMENT OF THE BUREAU OF LAND M	HE INTERIC	SUBMIT IN TRIPLICATE (Other Listingthonia pl. 7	Expers A 17. 185 COMMISSION OF SERVICES OF SERVICE
SUN (Do not use this	DRY NOTICES AND I	REPORTS O	k to a different reservoir	R OF INDIAN, ALLOTTEE OR TRIBE AND
OIT, GAS WELL WELL 2. NAME OF OPERATOR	XX OTHER			7. UNIT AGREEMENT NAME 8. FARM, ORGITAGE NAME
Moroilco., In	(C.	-		NM Federal
P.O. Drawer I 1. LOCATION OF WELL IN See also space 17 belo At Surface	, Artesia, Nm 88210 deport location clearly and in accounts	dance with any St	ate requirements *	2-6 10 FIELD AND POOL OR WILLOUT S. Salt Lake
4 miles SE/Ha				Sec 4-T21S-R32E
14. PERMIT NO		Show whether DF, R	T. CR. etc.)	12. COUNTY OR PARISH 13. STATE
30-025-22751	3688'GR			Lea NM
16	Check Appropriate Box	To Indicate Na	ture of Notice, Report, or	Other Data
•	NOTICE OF INTENTION TO	,	SCBSE	QUENT REPORT OF:
TEST WATER SHUT OF		=	WATER SHUT OFF	BEFAIRING WELL
FRACTURE TREAT SHOOT OR ACIOZE	MET TIPLE COMPLET ABANDON*	*	FRACTURE TREATMENT SHOOTING OR ACIDIZING	ALTERING CASING ABANDONMENT®
REPAIR A SUL	X CHANGE PLANT		(Other)	
nent to this work.) (•		ED EXHIBIT "A"	cal depths for all markers and zones perti
				·
				سنور
				نث
18. I bereby certify that	the foregoing is true and correct	TITLE LICE	- President	DATE 8/26/28
. 1 1 7 11 11	ral or State office use)	·		
APPROVED BY	TAL PESCHPOSE	ጥነጥ ጽ		DATE 9-19 F3

*See Instructions on Reverse Side

TITLE _

DATE ___

APPROVED BY AL PESOURCES CONDITIONS OF APPROVAL, IF ANY:

SUNDRY NOTICES AND REPORTS ON WELLS

EXHIBIT "A"

- 1. Re-enter well bore
- 2. Run Cement Bond Log
- 3. Perforate Strawn interval @ 12,614' to 12,622' with one shot per foot
- 4. Acidize 1500 gals 15% HCL
- 5. Swab load
- 6. If hydrocarbons not found, set bridge plug above perforated zone
- 7. Perforate gross Bone Spring interval @ 9893' to 10,098'
- 8. Acidize 2800 gals 15% NEFE
- 9. Swab load
- 10. Frac, if necessary, with 2500 bbls gelled water and 250,000# sand
- 11. Swab load
- 12. Set removable bridge plug above perforated zone 9893' to 10,098', move uphole to perforate upper sandstone interval
- 13. Perforate @ 9460 9510 with 25 holes total
- 14. Acidize 2500 gals 15% NEFE
- 15. Swab load
- 16. Frac, if shows indicate, with 280,000# sand and 2200 bbls gelled water
- 17. Swab load, if commercially productive, run tubing, rods and setup pump jack
- 18. Setup tank battery and surface production equipment

SIGNED	ertify that the foregoing Aur / S to for Federal or State of BY ONS OF APPROVAL, IF	ECGCINEM T	TILE N. PRESIDE	seut ACC	DATE SEPTED FOR DATE SEP 1 9		. 0
SIGNED	e for Federal or State o	CCGCCC TO T		ACC		8/26/28	
sig ne ភិ _	= rank5 /u	organiem T	ITLE No Passio	¥117	DATE	8/26/28	. 0
18. 1 hereby o	ertify that the foregoing	is true and correct					. 0
							. 0
						تت	
						Aus 20	REC
		Ü			·		
17. DESCRIBE I	* Change of Operation of the work. If well is direct	ABANDON* CHANGE PLANS Brator CHERATICAS (Cledity State ctionally drilled, give sub- r HANNE T	all pertinent details, a surface locations and m	ensured and true ve	uits of multiple completion Report a	nd Log form.) mated date of st	arting any
TEST WAT	NOTICE OF INT	PULL OR AUTER CASING	WAT	SUB TER SHUT-OFF	SEQUENT REPORT O	F: Epairing well	
16.	5-22751 Check /	Appropriate Box To	Indicate Nature of	Notice, Report, c	Lea or Other Data	<u></u>	VI. 1
14. PERMIT NO		15 ELEVATIONS (Sho	w whether DF, RT, GR, etc.)	12. COUNTY	T21S-R32E	ITATE VM
4. LOCATION O See also sp At aurface	pace 17 below)	L, Section 4	ce with any State requi	rementa.*	S. Salt	NO POOT OR WILD Lake Mont R., M., OR BLE, AN	^ow
3. ADDRESS O	1Co., Inc.	· -			N.M.,	Federal	
WELL,	GAS WELL XX OTHER				7. UNIT 408	BEMENT NAME	
(De n	SUNDRY NO	OTICES AND REL	en or ning hack to a di		R IF INDIAN	. ALLOTTRE OR TI	BIBE and
	INUC	AU OF LAND MAN				4791	

STATE OF DEW MEXICO ENERGY AND MINERALS DEPARTMENT

40 to their assisted			
DISTRIBUTI	ON		
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TILE	Τ-		
U.C.O.R.	1		
LAND OFFICE		1	
TREMARCHTRE	3/2		
OFFICE	 		
PROMATION OF			

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Forth C 104 Revised 13:01-78 Format 05:01-83 Page 1

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OF MAD MATURAL O

<u> </u>	AUTHORIZATION TO T	RANSPORT OIL	עדאא מאג	RAL GAS		
Ope. otor			·· ·			
Grace Petroleum Corporati	on					
P. O. Drawer 2358, Midlan Heaton(a) for tiling (Check proper box)	d. Texas 79702-1	2358	Other (Fleare	england		
New Wall	Change in Transporter of:					
Recompletion	O11	X Dry Gas	Effectiv	e 7-1-84		
Change in Ownership	• in Ownership Castinghood Gas Condensate					
If change of ownership give name and address of previous owner						
H. DESCRIPTION OF WELL AND LE						
Lease Name	Well No. Pool Name, Incli	uding Formation		Kind of Lease	•	Legge No.
New Mexico"A"Federal	2 S. Salt L	ake Morrow		State, Federal or	Federal_	NM-14791
Unit Letter G : 1980	Feet From The Nort	h_Line and	1980	Feet From The	East	
Line of Section 4 Township	21-S Ran	ge 32-E	, ММРМ	Lea		County
Name of Authorized Transporter of Oil Permian Corporation Name of Authorized Transporter of Casingha Gas Company of New Mexico If well produces oil or liquids, give location of tanks. If this production is commingled with the NOTE: Complete Parts IV and V on	or Condensate (X) Permian (Eff. 9 / 1 / 8 ad Gas or Dry Gas (Sec. Twp. 8 4 21-S at from any other lease or	Address P.O.Bo Address P.O.Bo is que como	1183 Ho (Give address) 1x 26400 F ctually connector	Albuquerque , when	copy of this form is 77001 copy of this form is New Mexico 8-3-78	to be sent)
VI. CERTIFICATE OF COMPLIANCE	. <u>.</u>		OIL C	ONSERVATIO		
Thereby certify that the rules and regulations of been complied with and that the information give	the Oil Conservation Division is true and complete to the	best of				, 19
my knowledge and belief.		BY	UNICH	<u>ami sidanan m</u> Anstrict i sur		
1 11 / 1/2		- TITLE	:			i
		11	his form is to	be filed in com	pliance with AUL	E 1104.
(Signature)		well, t	his form must	ba nacompanie	in for a newly dri d by a tabulation ace with RULE 1	of the deviation
(Tile)	District Production Manager (Title) All sections of this form must be filled out completely for allow able on now and recompleted wells.					
August 7, 19	984	_ FI	III out only	Bections I, II, I	II, and VI for choor other auch char	
			partie Forme	C-104 must be	filled for each	pool in multiply

STATE OF HEW MEXICO ENERGY FIG MINEPALS DEPARTMENT

DISTRIBUTION			
BANTA FE			
TILE			
U.C.O.A.	1		
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GPERATON			
PRIORICTION OFFICE			

OIL CONSERVATION DIVISION P. O. BOX 2088

Form C-104 Revised 10:01-78 Format 06-01-83 -Page 1

SANTA FE, NEW MEXICO 87501

REQUEST FOR ALLOWABLE AND

I.	AUTHORIZ.	ATION TO TRANS	PORT OIL	UTAN DNA	RAL GAS	<u> </u>	
Ope. ator						-	
Grace Petroleum Corporat	ion						
Address							
P. O. Drawer 2358. Midla	nd. Texas	<u> 79702-2358</u>		651			
Heston(s) for tiling (Check proper box)	Change in Ti	ransporter of:		Other (Please	rexplain)		
Recompletion	OII		ry Gas	Effectiv	e 7-1-84		
Change in Ownership	Casingh	F== -	ondensate				
						· -	
If change of ownership give name and address of previous owner							
and address of previous owner							-
II, DESCRIPTION OF WELL AND I	EASE				,	·	
Legae Name	Well No. Po	ool Name, Including F	ormation		Kind of Lease	_	Lease No.
New Mexico"A"Federal	<u> </u>	. Salt Lake I	Morrow		State, Federal	Federal	NM-14791
Location							
Unit Letter <u>G</u> : <u>1980</u>	Feet From 1	the North Lir	10 and	1980	Feet From Th	• <u>East</u>	
Township A	IP 21-S	Ranae	32-E	, NMPM	Los		County
Line of Section 4 Towns	11 ZI-2	nange	_3Z-E	LIAMEM	· Lea		County
III. DESIGNATION OF TRANSPOR	TER OF OU	. AND NATURAL	L GAS				
Name of Authorized Transporter of CII	or Cond	ensate 🐧		ive address	to which approve	d copy of this form is	to be sent)
Permian Corporation			P.O.Box	1183.Но	uston.Texa	d copy of this form is	
Name of Authorized Transporter of Casing	head Gas	or Dry Gas X	Address (live address	to which approve	d copy of this form is	to be sent)
Gas Company of New Mexic	0		P.O.Box	26400.	ll buquerque	New Mexico	87125
If well produces oil or liquids,	iii Sec.	Twp. Rge.	is gas act	ually connect	d? When		
give location of tanks.	G : 4	<u> </u>	1	Yes		8-3-78	
If this production is commingled with t	nat from any o	other lease or pool,	give comm	ingling order	number:		
NOTE: Complete Parts IV and V or	n reverse side	if necessary.		•			

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

AMAKIT		
/ Jed / mg M	Ruddy J	<u>Knight</u>
/ (Signature)	•	J
District Production Manager		
(Title)		
August 7, 1984		
(Date)		

APPROVED DISTRICT 1 SUPERVISOR

TULE DISTRICT 1 SUPERVISOR

This form is to be fried in compliance with MULE 1104.

If this is a request for sliowable for a newly drilled or despended well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I. II. III. and VI for changes of owner, well name or number, or tubesporter, or other such change of condition.

Separate Forms C-10.4 must be filled for each pool in multiply completed wells.

DISTRIBUTION | |

	DISTRIBUTION ANTA FE ILE I.S.G.S. AND OFFICE		CONSERVATION COMM FOR ALLOWABLE AND ANSPORT OIL AND	-	Porm C-104 Supersedes Old C-104 and C-11 Effective 1-1-65
ı.	OPERATOR PROPATION OFFICE Operator				
	Grace Petroleum Corp		я		
	Reason(s) for filing (Check proper box New Well Recompletion Change in Ownership	Change in Transporter of: Ott Costinghed Gas Conde	" XX	e explain) Effective	12-1-81
	If change of ownership give name and address of previous owner	3,332			
II.	DESCRIPTION OF WELL AND	LEASE. Well No. Pool Name, in-luding F	orrettion	Kind of Lease	L asse No.
	New Mexico "A" Fed	2 S. Salt Lake		State, Federal or	Federal NM-14791
	Unit Letter G ; 19	80 Feet From The North Lir	1980	Feet From The	East
	Line of Section 4 To	waship 21-S Range	32-E . NMP	, Lea	County
m.	DESIGNATION OF TRANSPORT	TER OF OIL AND NATURAL GA	18		,
	Name of Authorized Transporter of Cill Permian Corporation		P.O. Box 118:		copy of this form is to be sent) Texas 77001
	Name of Authorized Transporter of Car Southern Union Gath		First International Bldg., Dallas, TX 75270		
	If well produces oil or liquids,	Unit Ser. Two Pge.	is an actually connec	•	
	give location of tanks,	G 4 21-5 32-E			8-3-78
IV.	If this production is commingled wi COMPLETION DATA	th that from any other lease or pool,			
	Designate Type of Completic	on - (X) Oil Well Gas Well	Hew Well Workover	Deepen Pi	ug Back Same Res/v. Diff. Res/v.
	Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.	B.T.D.
	Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay		ubing Depth
	Perforations	4	L	D	epth Casing Shoe
		TUBING, CASING, AN	CEMENTING RECO	10	
	HOLE SIZE	CASING & TUBING SIZE	DEPTH S	ET	SACKS CEMENT
			ļ		
			1		
V.	TEST DATA AND REQUEST FOIL WELL	OR ALLOWABLE (Test must be a able for this de	fter recovery of total vol epth or be for full 24 hour	ume of load oil and	must be equal to or exceed top allow
	Date First New Oil Run To Tanks	Date of Test	Producing Method (Flo		te.)
	Length of Test	Tubing Pressure	Cosing Pressure	T ĉ	hoke 51xe
	Actual Prod. During Test	Oli-Bale.	Water, Bble.	G	ge-MCF
			<u> </u>		
	GAS WELL Actual Prod. Test-MCF/D	Length of Test	Bble. Condensate/MMC	F G	ravity of Condensate
	Testing Method (pitot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shw	t-10) C	hoke Size
VI.	CERTIFICATE OF COMPLIAN	CE	OIL	CONSERVATION	ON COMMISSION
		regulations of the Oil Conservation with and that the information given	APPROYED	-	. 19
	shove is true and complete to the	i beat of my knowledge and belief.	BY	13 SH	CTOICT !
	1 // 1	. 1 _	TITUE BUPE	COCK LI	ornor r
	$\wedge W. VK$	Buddy J. Knigh			plience with RULE 1104, e for a newly drilled or despense
	15.7 (15.9)	atw ()	well, this form must	t be accompanied	by a tabulation of the deviation ce with RULE 111.
		uction Manager		f this form must b	e filled out completely for allow
	December 31	, 1981	Fill out only	Sections I. II. II	I, and VI for changes of owner or other such change of condition
	'n	11 P /	" matt paute of unuo	, or create boutest c	

Separate Forms C-104 must be filed for each pool in multiply

JISTRIBUTION 5.0 TAFE Ē AUTHORIZATION TO TIGHTSPORT OIL AND NATURAL GAS DOFFICE OIL THANSPORTER GAS OPERATOR PROBATION OFFICE Grace Petroleum Corporation P. O. Drawer 2358, Midland, Texas 7970. Reason(s) for filing (Check proper box) New Well Recompletion OH Change in Ownership If change of ownership give name cleary Petroleum Col II. DESCRIPTION OF WELL AND LEASE | Well No.; Post Proc. 15 New Mexico "A" Fed. 2 S. Salt 1 ; 1980 Feet From The North G Unit Letter 4 Township 21-S Line of Section III. DESIGNATION OF TRANSPORTER OF OIL AND NATUR. | Name of Authorised Transporter of Oil | or Condens its | X | Permian Corporation Score of Authorized Transporter of Casinghand Gas _____ or Tiv 200. Gas Company of New Mexico Unii If well produces oil or liquids, give location of tanks. 21-S If this production is commingled with that from any other lease of IV. COMPLETION DATA Designate Type of Completion = (X) ; Date Compl. Ready to Fire t. Date Spudded Elevations (DF, RKB, RT. GR, etc., Name of Producing Formition Perforations TUBING, CASIN HOLE SIZE CASING & TUBING SIZ V. TEST DATA AND REQUEST FOR ALLOWABLE (Test for able for Date Fire! New Oil Run To Tanks Date of Test Length of Test Tubing Pressure Actual Prod. During Test GAS WELL Actual Prod. Test-MCF/D Testing Method (pitot, back pr.) Tubing Pressure (Shut-in) I. CERTIFICATE OF COMPLIANCE I hereby certify that the rules and regulations of the Oil Conser Commission have been complied with and that the information above is true and complete to the best of my knowledge and I

(Signature)

Production Manager (Title) 10-25-78 (Date)

Distric

NEW MEXICO (III) ORSERVATION COMMISSION REQUEST FOR ALLOWABLE

AND

torm C-104 Supersedes Old C-104 and C-11-Etimotive 1-1-65

2		Other (Please explai	(n)		
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rpora	tion.	P. O. Drawer	2358.	Midland. Tx	79702
		· · · · · · · · · · · · · · · · · · ·		TO MINDARLIA	
	Morrow	,	of Leane Federal	Federal	Lease No.
		1980 F**			11111111111111
		, NMPM,		Lea	County
ani i	P. O.	Box 1183, Ho	us ton	d copy of this form i	s to be sent) 01
	Firet	Internationa	1 B1d	g., Dallas, 1	
1.50	! ··· !	to the connected?	When	8-3-78	
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G. Alic	. TONERO	THIS RECORD			
E	y	NEPTH SET		SACKS C	EMENT
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at be a	Action Thy	y of social volume of l or full 24 hours) g trethod (Flow, pump			or exceed top allow
	in (in (in)	-vaunte		Choke Size	·
		15.		Ger-MCF	
				· . · · · · · · · · · · · · · · · · · ·	
		rionscte/NB/CF		Gravity of Condense	31 .
	1 - 65 1/	re mure (Shut-in)		Cheke Size	
		OIL CONS	ERVA	1978	ON 219
vation given selicit	1	Verse	- A	lillo	
	TIVE	SUPERVI	SOR	DISTRICT I	L
		nis form is to be fi this is a request fo	atlen.	hie for a newly dr	(Ited or despense
		his form must be a vien on the well for	u sccoun	ied by a tabulation anco with AULE	of the deviation
	₁! whie ≎	il exctions of this in new and recomple	sted wel	12.	
	i d'a	the or number, or tr	na I, II. ensports	III, and VI for cl n or other such chi	hanges of owner ange of condition

BOX 2045

HOBBS, NEW MEXICO

NOTICE OF GAS C	CONNECTION	DATE_	8/3/78
This is to noti	fy the Oil Conserva	tion Commission t	hat connection for the
purchase of gas	from the Grace Pe	troleum Corp.	, New Mexico A Federal ,
-	Opera		Lease
			Salt Lake
#2	G	, 4-21S-32E S.T.R.	, South Morrow,
Well #	Unit Letter	S.T.R.	Pool
Gas Company of	New Mexico	, was made on	8/3/78
Name of Purc			Date ·
		GAS CO	MPANY OF NEW MEXICO
			PURCHASER
	·		
		Jan	a l terra
			REPRESENTATIVE
		V	
		Transm	ission Manager
			TITLE

cc: Oil Conservation Commission - Santa Fe

E. R. Corliss - Dallas

File

W. B. Richardson - Dallas

R. J. McCrary - Dallas E. H. Redden - Carlsbad

Operator(s): Grace Petroleum Corporation 300 Prentice Building North Broadway Plaza

Oklahoma City, Oklahoma 73116

Grace Petroleum Corporation P. O. Drawer 2358 Midland, Texas 79702

(Rev. 5-8)						SUBM		DUPLICA	TE*	Fo Bi	orm ap udget E	proved. Sureau No. 42-R355.5.
	DEP		ENT O			reriof	₹	struct	ions on 5.	NM-1479	_	ON AND SERIAL NO.
WELL CO	MPI FTI					EPORT	AN	D LOC				TEE OR TRIBE NAME
18. TYPE OF WE		011.										
		WELL	GAS WELL	Δ D	RY 📙	Other			'·	UNIT AGRE	EMENT	NAME
b. TYPE OF COM NEW WELL X 2. NAME OF OPERA	WORK OVER	DEEP-	PLUG BACR	DIF	vr.		<u> </u>	₩E[FARM OB L		•
Cleary Pe	troleum	Corpor	ation		[7 <i>A</i>		Ľ	9	WELL NO.	100	÷
3. ADDRESS OF OPE	RATOR	COI DOI	acion			- AUG	24	1978		2		
P O Drai	wer 235	R Midl	and. Te	yas 7	9702				10). FIELD AND	POOL	OR WILDCAT
P. O. Dray 4. LOCATION OF WE At surface			early and in 180; FEL	accordance	with and	HOBBS,	NEW	MEXIC	<u> </u>			ke Morrow Gas
At top prod. in			,		-				ĺ	· · · · · · · · · · · · · · · · · · ·		
At total depth										Sec. 4,	T-2	1-S, R-32-E
			â	14. PE	EMIT NO.			ISSUED	-	2. COUNTY O	R	13. STATE
				Let	ter of	f	1	1-21-77	7	Lea		N. M
3-23-78	1	t.d. beach 2-78	1	е сомрь. -8-78	(Ready to	prod.) 18		73' GR	F. BEB, BT, 6			670'
20. TOTAL DEPTH, MD	A TVD 2	1. PLUG, BA	CK T.D., MD &	TVD 2	HOW M	TIPLE COMPL.	,	23. INTE	RVALS I	ROTARY TOOL	.8	CABLE TOOLS
14047'	1	13710)'	1	now m.					- 1404	71	
24. PRODUCING INTE			PLETION-TO	, BOTTOM,	NAME (M	ID AND TVD)		<u> </u>			25	WAS DIRECTIONAL SURVEY MADE
13314' -												<u>No - </u>
26. TYPE ELECTRIC	AND OTHER	LOGS RUN				Neutron,				ustic	-	AS WELL CORED
Velocity.	Forxo-	Guard.				ollar.G						<u>No</u>
28.	WEIGH	r, lb./ft.	CAS DEPTH SI			ort all string	s set i		ENTING REC	rculate	<u>a Ce</u>	Ment Pulled
13 3/8"		<u>. </u>	_		-							IMOUNT PULLED
9 5/8"		4.5# 3.5#		73' 92'	-1	7½" 2¼"	10		550 sx*	DV too	1	
	_ <u></u>	3.5#	21	92	-\ 	44				- 2100		
5½"	17	& 2O#	140	47'	-	7 7/8"	35		575 sx	- 2100	37	
		ER RECORD		_ <u>'</u>	, ,,,,,		30.		SING RECO	RD		
SIZE	TOP (MD		TOM (MD)	SACES C	EMENT*	SCREEN (M	(D)	SIZE	DEP	TE SET (MI	b)	PACKER SET (MD)
								2 7/8		13202		13202'
31. PERFORATION RE	CORD (Inter	val, size at	nd number)	'-		82.	AC	ID, SHOT.	FRACTUR	E, CEMENT	SQUI	EEZE, ETC.
		•.				DEPTH IN	TERVA	L (MD)	AMOU	NT AND KINI	OF N	TATERIAL USED
See attac	hed she	et for	perfora	tion	- E	13730	- 1	3740'	2150 g	als. 10	% Mc	rrowflo acid
record.		•	•	-		(plad o				O SCF/b		
		-				13314		3693'				rowflo acid
										0 SCF/b		2
33.•						DUCTION						
DATE FIRST PRODUC	TION	PRODUCTIO	ON METHOD (Flowing,	gas lift, p	umping—eize	and t	ype of pun	(p)	WELL		(Producing or
8-3-78		Flov	wina .									roducing

DATE OF TEST HOURS TESTED PROD'N. FOR TEST PERIOD CHORE SIZE OIL-BBL. GAS-MCF. GAS-OIL BATIO 8-9-78 24 28/64" 24 1950 81250 FLOW, TUBING PRESS. CALCULATED 24-HOUR RATE CASING PRESSURE GAS-MCF. OIL GRAVITY-API (CORR.) 24 1950 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY Sold 35. LIST OF ATTACHMENTS Clarence Forister

SIGNED .

Perforation Record, C-122, Deviation Report, Logs

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

*(See Instructions and Spaces for Additional Data on Reverse Side)

TITLE Asst. Dist. Prod. Mgr.

DATE ___8-23-78

NEW MEXICO FEDERAL "A" #2 PERFORATION RECORD

Individual Zones perforated as follows:

Depth	Size of Holes	No. Holes	
13314-318'	0.25"	5	
13546-550'	0.39"	5	
13593-598'	0.39"	6	
13644-649'	0.39"	6	
13688-693'	0.39"	6	
13730-740'	0.39"	11	Plugged off w/CIBP @ 13720' w/l sk cmt on top (PBTD 13710
13823-830'	0.39"	8	Plugged off w/CIBP @ 13796' w/2 sx cmt on top.
13834~842'	0.39"	9	w/ 2 3% cmc on top.

NSTRUCTIONS

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 35.

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 or Federal office for specific instructions.

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.

Item 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.)

37. BUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES O DEPTM INTERVAL TESTED, CUSH	OUS ZONES:	ROSITE AND CONTEN	MAARY OF PORIOUS ZONES: SHOW ALL MEDATAT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEFTM-INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES	38. GEOLOG	GEOLOGIC MARKERS	
FORMATION	TOP	MOLLOR	DESCRIPTION, CONTENTS, ETC.		TOP	P
3.			DST #1	2 2 2	MEAS, DEPTH	TRUE VERT. DEPTH
Lwr. Morrow	13823'	13842'	Opened tool @ 11:47 a.m. 6-16-78 w/weak			
•			blow. Shut-in tool @ 12:17 p.m. (30"	Rustler Anhy.	1384'	-
			initial flow) for 92" initial shut-in	(Base Red Beds	~	•
	•		period. Opened tool @ 1:49 p.m. w/slight	Yates	3422'	
·			blow immediately decreasing to nothing.	Capitan Reef	3610'	-
			Tool opened for 180". IHMP 7066 PSIG; IFP	(est)		
			(30") 45.2 increasing to 50.9 PSIG; ISIP	Delaware Mtn.	5222'	
			(92") 166./ PSIG; FFP (180") 59.4 decreas-	Sands		
			ing to 42.4 PSIG; FSIP (948") 1512.6 PSIG;	Bone Springs	8400'	
			FHMP 7069 PSIG. No recovery in sample	Wolfcamp	10900'	-
-			chamber. Rec 60' brine wtr in tbg.	Strawn	12482'	
			DST #2	Atoka	12634'	
Morrow	13730'	13740'	Opened tool @ 9:00 a.m. 6-20-78 w/weak blow	·Upper Morrow	13152'	
			Closed tool @ 9:35 a.m. Opened tool @ 11:0	7Lower Morrow	13784'	
			a.m. for 2nd flow period w/very weak blow. Barnett Shale	Barnett Shale	13907'	
			Left tool open for 3 hrs. Closed in tool			
			0 10 0 p. 11 1 1 1 1 20			
			22 6 8 22 6 DETC: FEID (1988 PSIG; FFP (180			
			FHMP 7270 PSIG No recovery in sample			
		_				

NEW MEXICO OIL CONSERVATION COMMISSION

FIELD			tive Park, 6501 N. Broad
	····	Oklahoma City, LEASE New Mexico Feder	Okla. 73316 al "A" WELL NO. 2
LOCATION 1980' FEL	& 660 FSL, Section 4,	T-21-S, R-36-E, Lea Cour	ity, New Mexico
	DEVI	ATION RECORD	
DEPTH	DEGREES	DEPTH	DEGREES
150	1/2	7,174	1
300	1/2	7,674	1-1/4
473	1	8,162	1-1/2
. 656	1/2	8,670]
970 1,283	3/4 1	8,821 9,309	1-1/4
1,545	3/4	9,810	1-3/4
1,835	1/4	10,325	3
2,140	1/2	10,490	3-1/2
2,420	3/4	10,550	3-1/4
2,724	3/4	10,700	3-1/2
3,020	2-1/2	10,855	3
3,170	2-3/4	11,030	2
3,270	2	11,215	1-1/2
3,367	2	11,367 11,877	1-1/4 1
3,508	2-1/4 2	12,347	1-1/4
3,599 3,648	1-3/4	12,755	2 ., .
4,185	3/4	13,281	1-3/4
4,650	3/4	13,484	1
5,192	1/4	13,704	3/4
5,663	1/2	14,047	j
6,176 6,674	3/4 1	14,420	1
I hereby certi form, and that such	fy that I have persona information is true a	al knowledge of the data and complete	and facts placed on this
		Signature The Ard Drilling C Company	ompany, Inc.
STATE OF TEXAS COUNTY OF MIDLAND			ompany, Inc.
Before me Ivan Ard who, after being du behalf of the opera	known to me to lily sworn, on oath sta	The Ard Drilling C Company hority, on this day person be the person whose name tes that he is acting at ified in this instrument ical. Signature Vice-Presider	nally appeared is subscribed hereto, the direction and on and that such well was
Before me Ivan Ard who, after being du behalf of the opera not intentionally d	. known to me to lily sworn, on oath sta itor of the well ident	The Ard Drilling C Company The Ard Drilling C C C C C C C C C C C C C C C C C C C	August , 19 78
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OPERATOR: CLEARY PETROLEUM

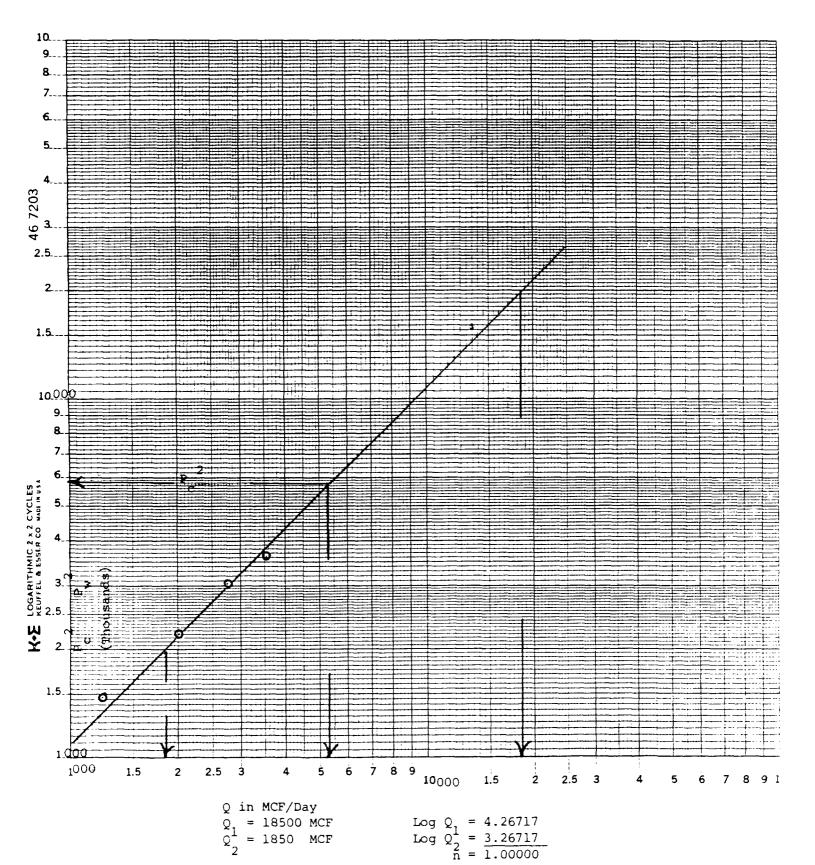
LEASE: New Mexico Federal "A"

WELL NO.: 2

FIELD: South Salt Lake

COUNTY: Lea

DATE:



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BOTTOM HOLE PRESSURE REPORT

Operator Cleary Petroleum Corporation	on	Lease	New M	exico F	ederal "A"	Well N	o. <u>2</u>
Field South Salt Lake		Reser	oirN	forrow		Datum_	
Test Date August 3, 1978		Well	Status _	Shut In	Hour	s Shut I	n_72:00
Tubing 2 7/8" Depth 13202'	_ End _	Open		Packer_	13202	s. N.	1.94 L.D.
Casing 5 1/2" Depth 14047'	_ Perf.	1331	1-6931		Total	Depth_	P.B. 13710
			Pre	\$5.			Gradient
	Dep	oth	Lbs/Sc	q. In.	Press.		Lbs/Ft.
Tubing Press. 2380# Casing Press: Top of Fluid. None	Surf 135			380 +50 0	1070		.079
Top of Water. None Temp. @13504' •F 188° Elev. KB. 3710' GI. 3688' Last Test Date. 7-26-78. Press. Last Test. 3571# Change. =121#. Per Day. Inst. No. 16527-NCal M78-1. Tested By Leon. Arnett. Calcu. By L. Arnett. Prod. Index Bbls/day/lb Drop Cumulative prod.	135	504	3 ¹	+50	Ctr. of	Perfs.	.079

Remarks:

Air Monitoring
Complete Gas Service
Consulting Chemists
Corrosion Fatigue Testing
Pollution Control
Water Analysis



NO
RUN No. 7549
DATE OF RUN
DATE SECURED 8-3-78

Petroleum Analytical Laboratory Service

P.O. BOX 2988 • 24 HOUR PHONE 915 - 563-2628 MIDLAND, TEXAS 79701

cured from t MIDLAI	ND, TEXAS				SECURED B	Y Ralph Arnett	
AMPLING CONDIT	IONSPRE					DA	TE
arbon dioxide	MOL %	WT. %	FR	CALC. A.P.I.		PROPANE CALC. G.P.M BUTANES CALC. G.P.M PENTANES PLUS. G.P.M	1.051 0.483 0.490
IR ITROGEN IXYGEN IS IETHANE	0.00 81.07		GPM	Calc. Vapor Press SP. GR. C		ETHANE CALC. G.P.M TOTAL G.P.M B.T.U./CU. FT. DRY BASIS _	2.669
THANE ROPANE SO-BUTANE I-BUTANE SO-PENTANE	10 ·01 3 ·83 0 ·66 0 ·85 0 ·34		2.669 1.051 0.215 0.267 0.124	CF/GAL C + LB/GAL C + 26.0 R.V.P. Gasoline EXCESS C4s EXCESS C 3		WET BASIS 26# PRODUCT 12# PRODUCT % BUTANES INCLUDED	11.77 0.763 0.518
I-PENTANE IEXANES IEPTANES	0 • 24 0 • 30 0 • 34		0.087 0.123 0.156	EXCESS C 2 14.0 R.V.P. Gasoline EXCESS C4's EXCESS C 3 EXCESS C 2 12.0 R.V.P. Gasoline		Sulfur Analysis (Gr./100 Cu.Ft.) - HYDROGEN SULFIDE MERCAPTANS - SULFIDES - RESIDUAL SULFUR	
	100 •00		4•693	EXCESS C 3 EXCESS C 2		Moisture Content,#/MM Cu. Ft	
OTAL	1 BY	LYGN		CHECKED BY	MILLE	R APPROVED BY	n n Q
Note: H2S			AC	DDITIONAL DATA AN	ID REMARKS		
note: nzb	wait in by			•			

SA TAFE FI G.S. 1D OFFICE	REQUEST	CONSERVATION COMMISSION FOR ALLOWABLE AND ANSPORT OIL AND NATURAL G	Form C-104 Supersedes Old C-104 and C-1: Effective 1-1-65
TRANSPORTER OIL GAS OPERATOR			
Operator Classes Batter 1			
Cleary Petroleu			
Reason(s) for filing (Check proper t	58, Midland, Tx. 79702	Other (Please explain)	·
New Well Recompletion Change in Ownership	Change in Transporter of: Oil Dry G: Casinghead Gas Conde	≒ (· · · · · · · · · · · · · · · · · · ·
If change of ownership give name and address of previous owner	· · · · · · · · · · · · · · · · · · ·		
DESCRIPTION OF WELL AN	D LEASE. Well No. Pool Name, including F	of rottion Kind of Legae	
New Mexico Federal "A	"Ful 2 So. Salt Lake		or Fee Federal NM-14791
Unit Letter G : 1	980 Feet From The North Lin	e and 1980 Feet From T	F4
Line of Section 4	Township 21-5 Range	32-Е ммрм, Lea	County
DESIGNATION OF TRANSPO	RTER OF OIL AND NATURAL GA	ıs	
Name of Authorized Transporter of Permian Corporation Name of Authorized Transporter of		P. O. Box 1183, Houston	, Texas 77001
Gas Company of New Me	xico	First International Bld	· · · · · · · · · · · · · · · · · · ·
If well produces oil or liquids, give location of lanks.	Unit Sec. Twp. Pge. G 4 21-5 32-E	Yes	8-3-78
	with that from any other lease or pool,		
Designate Type of Comple	tion - (X)	New Well Workover Deepen	Plug Back Same Resty. Diff. Rests
Date Spudded	Date Compl. Ready to Prod.	Total Cepth	P.B.T.D.
3-23-78	7-8-78	140471	13710'
Elevations (DF, RKB, RT, GR, etc. 3673' GR	Name of Producing Formation Morrow	13314	Tubing Pepth 13202 1
Perforations 13688-693' (holes), 13546-550' (5	6 holes), 13644-649' (6 holes), 13314-318' (5 ho	oles), 13593-598' (6	Depth Casing Shoe 14047
1101 5 5175	TUBING, CASING, ANI	DEPTH SET	ALCVA PEUTUE
HOLE SIZE	13 3/8"	473'	SACKS CEMENT
12½"	9 5/8"	5192' (DV tool @ 3272')	1st st-1150;2nd-2100sx3
7_7/8"	5½" 2 7/8"	14047'	675_sx
. TEST DATA AND REQUEST	FOR ALLOWABLE (Test must be a	fier recovery of total volume of load oil a pth or be for full 24 howe)	Tement Circulated
Date First New Oil Run To Tanks	Date of Teet	Producing Method (Flow, pump, gas lift	, etc.)
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil Bhis.	Water - Bbis.	Gaa - MCF
GAS WELL Calcul Actual Prod, Test-MCF/D	ate AOF 8-3-78 5183 MCF	(will attach to completic	on report) Growity of Condensate
1950	24 hrs.	12.3	51.8
Testing Method (pirot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size
Orifice Meter CERTIFICATE OF COMPLIA	775 INCE	OIL CONSERVA	28/64" TIQU COMMISSION
Commission have been complied	id regulations of the Oil Conservation d with and that the information given the best of my knowledge and belief.	APPROYED AUG 25	(le gez

47.32

Abougher of Rice Douglas W. Rice
(Signature)
Assistant District Production Manager (Title) 8-18-78 (Bate)

TITLE OIL & GAS INTERIOR

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or despend well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I. II. III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

NEW MEXICO OIL CONSERVATION COMMISSION

OPERATOR	Cleary Petroleum Corporation		xecutive Park, 6501 N. Broadwa
FIELD		LEASE New Mexico F	ity, Okla. 73316 ederal "A" WELL NO. 2
LOCATION	1980' FEL & 660 FSL, Section 4, T	-21-S, R-36-E, Lea	County, New Mexico
	DEVIAT	ION RECORD	
DEPTH	DEGREES	DEPTH	DEGREES
150	1/2	7,174	7
300	1/2	7,674	1-1/4
473	1	8,162	1-1/2
656	1/2	8,670	ļ
970	3/4	8,821]
1,283 1,545	1 3/4	9,309 9,810	1-1/4 1-3/4
1,835	1/4	10,325	3
2,140	1/2	10,490	3-1/2
2,420	3/4	10,550	3-1/4
2,724	3/4	10,700	3-1/2
3,020	2-1/2	10,855	3
3,170	2-3/4	11,030	2
3,270	2	11,215	1-1/2
3,367	2	11,367	1-1/4
3,508	2-1/4	11,877	1
3,599	2	12,347	1-1/4
3,648	1-3/4	12,755	2
4,185	3/4	13,281	1-3/4
4,650	3/4	13,484	3/4
5,192	1/4 1/2	13,704 14,047	1
5,663 6,176	3/4	14,420	i
6,674	1	11,120	·
	d that such information is true and	Stignature	Gh.X.
		The Ard Drillin Company	ng Company, Inc.
STATE OF COUNTY OF	FMIDLAND		
behalf o	Before me, the undersigned authord , known to me to be er being duly sworn, on oath states f the operator of the well identificationally deviated from the vertical	the person whose na that he is acting led in this instrume	me is subscribed hereto, at the direction and on
		Signature Vice-Pres	ident
		Title	
Swo	rn and Subscribed to before me, th	Stanley in Notary Public Texas.	•
MY COMMI	SSION EXPIRES:	(Stonley N.	Staples)
	31-79		
~	• • • • • • • • • • • • • • • • • • • •		

OIL CONSERVATION COMMISSION

BOX 2045

HOBBS, NEW MEXICO

NOTICE OF GAS C	ONNECTION		DATE_	8/3/78
This is to noti	fy the Oil	Conservatio	on Commission	that connection for the
purchase of gas	from the	Grace Petro	leum Corp	, New Mexico A Federal,
`	•	Operator		. Lease
		•	Lea	Salt Lake
#2	, G	,	4-21S-32E	, South Morrow ,
Well #	Unit	Letter	S.T.R.	Pool
Gas Company of		<u>, </u>	was made on_	
Name of Purc	haser			Date
			GAS C	OMPANY OF NEW MEXICO PURCHASER
			Jan	REPRESENTATIVE
			Trans	mission Manager
				TITLE

cc: Oil Conservation Commission - Santa Fe

E. R. Corliss - Dallas

File

W. B. Richardson - Dallas

R. J. McCrary - Dallas

E. H. Redden - Carlsbad

Operator(s): Grace Petroleum Corporation 300 Prentice Building

North Broadway Plaza

Oklahoma City, Oklahoma 73116

Grace Petroleum Corporation

P. O. Drawer 2358

Midland, Texas 79702

Form 9-331 (May 1963)	UNITED STA DEPARTMENT OF TH		SUBMIT IN TRIPLICATE (Other instructions on r	Budget Bur 5. LEASE DESIGNATIO	eau No. 42-R1424.
	GEOLOGICAL S	SURVEY		NM-14791	
	SUNDRY NOTICES AND Representation for proposals to drill or to de Use "APPLICATION FOR PERMIT	epen or plug back	to a different reservoir.	6. IF INDIAN, ALLOTT	EE OR TRIBE NAME
1. OIL OX	S OTHER			7. UNIT AGREEMENT :	NAME
2. NAME OF OPERAT	TOR		JUL 20 1978	S. FARM OR LEASE N.	AME
	troleum Corporation			New Mexico	Federa ł "A"
3. ADDRESS OF OPE		y.	S. GEOLOGICAL SURV HOBBS. NEW MEXICO		
	ver 2358, Midland, Texas LL (Report location clearly and in accord 7 below.)	13102		10. FIELD AND POOL,	
	& 1980' FEL			11. SEC., T., R., M., OR SURVEY OR ARE	ke Morrow Gas
14. PERMIT NO.	15. ELEVATIONS (S	how whether DF, RT,	GR. etc.)	Sec. 4, T-2	
Letter dat	ted 11-21-77 3673' GF	}		Lea	N. M.
16.	Check Appropriate Box To	o Indicate Natu	us of Notice Papert or		
	NOTICE OF INTENTION TO:	s maicare 14aiu		QUENT REPORT OF:	
			SC BSL		
TEST WATER SE	· —-;	NG -	WATER SHUT-OFF	REPAIRING	
FRACTURE TREA			FRACTURE TREATMENT SHOOTING OR ACIDIZING	ALTERING ABANDONM	
REPAIR WELL	CHANGE PLANS		(Other) Completi		X
(Other)				its of multiple completion appletion Report and Log f	
17. DESCRIBE PROPOS proposed wor nent to this w	SED OR COMPLETED OPERATIONS (Clearly Str k. If well is directionally drilled, give s ork.)*	nte all pertinent de subsurface locations	tails, and give pertinent date and measured and true vert	es, including estimated di ical depths for all marke	ate of starting any ers and zones perti-
6-14-78	WIH w/2 7/8" tbg & bit	to 13891'.	. Tested BOP & cs	g to 2000 PSIG	ok.
6-15-78	Tested BOP Blind Rams interval from 13834 to from 13823 to 13830' w	13842' w/:	l SPF using 4" csg	g gun (9 holes)	
6-16-78	WIH w/DST tools. Set 11:47 a.m. w/weak blow in 25". Shut-in tool shut-in period. Annul slight blow immediated DST No. 1 Lower Morrow IHMP 7066 PSIG; IFP (166.7 PSIG; FFP (180") PSIG; FHMP 7069 PSIG No recovery in Sample dicated it to be satur	y. Had 1½ 0 0 12:17 p.m us remained y decreasing (Sand Perfs (30") 45.2 (59.4 decreased)	ozs pressure decreem. (30" initial flood full. Opened to the second form of the second fo	easing to -O- p low) for 92" in bol @ 1:49 p.m. bol opened for 42'): PSIG; ISIP (9 IG; FSIP (948")	ressure itial w/ 180". 2") 1512.6
6-19-78	Set WL CIBP @ 13796' c	capped w/2 s		d csg to 3200 P additional pag	
18. I hereby certify	that the the egoing is tryle and correct	TITLE Dist	rict Production Mg]r. DATE 7-1	9-78
(This space for	Federal or State office use)				
APPROVED BY CONDITIONS (OF APPROVAL, IF ANY:	TITLE		ACCEPTED FOR RI	CORD
	*Se	e Instructions or		JUL 2019	IV I

Form 9-331 (May 1963)	UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY	SUBMIT IN TRIPLICATE* OR (Other justructions on re- verse side)	Form approved. Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO. NM-14791
(Do not use thi	NDRY NOTICES AND REPORTS Of some for proposals to drill or to deepen or plug bands "APPLICATION FOR PERMIT—" for such pro-	N WELLS ck to a different reservoir. Socials (Control of the Control of the Contr	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
OIL GAS WELL WELL NAME OF OPERATOR	OTHER	JUN 1 9 1978	7. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME
3. ADDRESS OF OPERAT	···	S. GEOLOGICAL SURVEY	New Mexico Formal "A" Fa
4. LOCATION OF WELL See also space 17 be At surface	Report location clearly and in accordance with any S low.)	HOBBS, NEW MEXICO	2 10. FIELD AND POOL, OR WILDCAT So. Salt Lake Morrow Gas
1980' FNL &	1980' FEL	;	11. SEC., T., R., M., OR BLK. AND SURVEY OR ARBA Sec. 4, T-21-S, R-32-E
14. rennir No. Letter dated	15. ELEVATIONS (Show whether DF, 11-21-77 3673 GR	RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE Lea N. M.
16.	Check Appropriate Box To Indicate No NOTICE OF INTENTION TO:		Other Data ENT REPORT OF:
TEST WATER SHUT- FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)	OFF PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON® CHANGE PLANS	WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZING (Other) Production (NOTE: Report results Completion or Recomple	REPAIRING WELL ALTERING CASING ABANDONMENT* X of multiple completion on Well etion Report and Log form.)
17. DESCRIBE PROPOSED proposed work, nent to this work.	R COMPLETED OPERATIONS (Clearly state all pertinent f well is directionally drilled, give subsurface location	details, and give pertinent dates, ons and measured and true vertica	including estimated date of starting any l depths for all markers and zones perti-
6-2-78	Drld 7 7/8" hole to 14,047' TD.		
6-3-78	Ran GR-Acoustic Velocity Neutro Guard Log from 14,050' to 12,00		o 5200'. Ran Forxo-
6-4-78	Ran 343 jts (14,054') $5\frac{1}{2}$ ", 17# csg w/Shoe set @ 14,047', FC @ 1st, 3rd, 5th, 7th, 9th, 17th, 150 sx Howco Lite containing 0. sk Flocele followed by 525 sx CCFR-2, 3 lbs/sk KCL & $\frac{1}{4}$ lb/sk F wtr. Plug down @ 2:15 AM 6-5-7 returns throughout cmt job.	13,963' & Centralize 18th, & 19th jts. C 6% Halad-22, 5 lbs/s lass "H" containing locele. Displaced p	rs installed on the mt'd down 5½" csg w/ k Gilsonite, & ¼ lb/ 0.8% Halad-22, 0.4% lug w/315 bbls 2% KCL
6-9-78	Ran GR-N-CCL Log from 13,928' t from 13,922' to 10,300'.	o 11,000'; Ran GR-M	icro-Seismogram Log

*See Instructions on Reverse Side

ACCEPTED FOR RECORD

O.G. L

.IIIN 19 1978

U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

UNITED STATES SUBMIT IN TRIPLICATE Other instructions on reverse side Other instructions on reverse side LEASE DESIGNATION IND SERIAL NO. GEOLOGICAL SURVEY

NM-14791

	GEOLOGICAL JUNYET		1417-14/91
(Do not	SUNDRY NOTICES AND REPORTS use this form for proposals to drill or to deepen or plu, Use "APPLICATION FOR PERMIT—" for such		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1.			7. UNIT AGREEMENT NAME
oir 🗀	GAS T		7. Coll AGREEMENT Same
2. NAME OF OPE	WELL A OTHER		S. FARM OR LEASE NAME
	· · · · · · · · · · · · · · · · · · ·		
Cleary P	Petroleum Corporation		New Mexico Federal "A" -
	./ .	100 3 JE 119 20 100 100 100 100 100 100 100 100 100	
4. Proximination	rawer 2358, Midland, Texas 79762 Well, Report location clearly and in accordance with C	de State requirements	10. FIELD AND POOL, OR WILDCAT
See also spac At surface	ce 17 below.)	79> ///	
	U 0 10001 FFI	S, V, G/CA	So. Salt Lake Morrow Gas
1980 FN	NL & 1980' FEL	Shy in Si	SURVEY OR AREA
		Ct OPLA	Soc 4 T 21 C D 22 F
14. PERMIT NO.	15. ELEVATIONS (Show whether	DF, RT, GR, etc.)	Sec. 4, T-21-S, R-32-E 12. COUNTY OR PARISH 13. STATE
Lotton d	dated 11-21-77 3673' GR		lea N. M.
16.	Check Appropriate Box To Indicate	Nature of Notice, Report, or	Other Data
	NOTICE OF INTENTION TO:	SUBSE	QUENT REPORT OF:
TEST WATER	R SHUT-OFF PULL OR ALTER CASING	WATER SHUT-OFF	REFAIRING WELL
PRACTURE T		FRACTURE TREATMENT	ALTERING CASING
SHOOT OR A	CIDIZE ABANDON*	SHOOTING OR ACIDIZING	ABANDONMENT*
REPAIR WEL	L CHANGE PLANS		Surf Csg & Int Csg X
(Other)		(Note: Report resul Completion of Recom	ts of multiple completion on Well pletion Report and Log form.)
17. DESCRIBE PRO	POSED OR COMPLETED OPERATIONS (Clearly state all pertin	ent details, and give pertinent date	s, including estimated date of starting any
nent to thi	work. If well is directionally drilled, give subsurface lo is work.) *	cations and measured and true verti	cal deptas for all markers and zones perti-
3-23-78	Spudded 17½" hole @ 11:59 PM w/	'Ard Drlg Co.	
3-24-78	Drld 17½" hole to 473'. Circ h (492') 13 3/8", 54.5#, K55, STC 13 3/8" csg w/350 sx Class "C" followed by 300 sx Class "C" co down @ 5:15 PM. Cmt circ'd (20	C csg. Set @ 473'. R containing 4% Gel, 2% ontaining 2% CA CL ₂ &	U Howco. Cmt'd down CA CL ₂ , & ½ lb/sk Flocele
3 - 25-78	NU Wellhead & BPO Stack. Teste & DC's. Tested Pipe Rams to 10 OK.		
4-8-78	Drld $12\frac{1}{4}$ " hole to 5192'. POH tas req'd by USGS.	to log. Ran GR-Acoust	ilog over salt section
4-9-78	Ran 124 jts (5198') 9 5/8", 53. 5115' & DV tool @ 3272'. RU How/850 sx Howcolite-Wate contain mixed @ 11.9 PPG followed by 30 2% CACL ₂ mixed @ 14.1 PPG. Plu	owco. Circ'd to clear ning 5 lbs/sk Gilsonit DO sx Class "C" contai	csg. Cmt'd 1st stage e & ¼ lb/sk Flocele ning ¼ lb/sk Flocele & ened DV Tool. Circ'd
18. I hereby cer	they that the foregoing is true and correct	District Production Mg	r. DATE 4-11-78
	for Federal or State office use)		
, 22.5 bpace	7 - (,		
APPROVED	S OF APPROVAL IF ANY:		DATE TOO DECORD

*See Instructions on Reverse Side

ACCEPTED FOR RECORD APR 13 1978

U. S. GEOLOGICAL SURVEY HOBLS, NEW MEXICO

SUNDRY NOTICE USGS Form 9-331 New Mexico Federal "A" #2 4-11-78

* 4-9-78 (cont)

200 sx cmt from 1st stage. Circ'd 4 hrs. Cmt'd 2nd stage w/2000 sx Howcolite-Wate containing $\frac{1}{4}$ lb/sk Flocele & 15% salt mixed @ 12.9 PPG followed by 100 sx Class "C" containing $\frac{1}{4}$ lb/sk Flocele & 2% CACL₂ mixed @ 14.6 PPG. Plug down @ 3:15 PM. Circ'd 200 sx cmt. Raised BOP and set slips. WOC 18 hrs. Note: 1st Stage cmt job witnessed by USGS Representative.

4-10-78 NU & tested Blind Rams to 1500 PSIG. Drld DV Tool @ 3272'. RIH to top of cmt @ 5111'. Tested Pipe Rams, Annular Preventer, & 9 5/8" csg to 1500 PSIG. Held OK.

CONDITIONS OF APPROVAL, IF ANY:

COPY TO O. CSTEMIT IN TRIPLICATE

Com 9-331 C				(Other	r instructi	000 00	Budget B		. 42-R1425.
,		ED STATES		ŗ	everse side		27 .		
	DEPARTMENT	OF THE I	NTER	NOR		ľ	5. LEASE DESIGNA	TION AND	SERIAL NO.
	GEOLO	GICAL SURVI	ΞY]	NM-14791		
A DDI ICATION	FOR PERMIT 1	O DRILL I	FFPF	N OR PI	IIG RA	7 CK	6. IF INDIAN, ALLO	TTES OR 1	ICISE NAME
	TON TEMPOR	O DIVILL, I	, C.C.; C	., OK 1 L	.00 07	10.1			
a. Type of work. DRII	LL 🛛	DEEPEN [PLU	G BACK		7. FNIT AGREEME	NT NAME	
b. TYPE OF WELL			611	NGLE [V]	MULTIPLE				
	S OTHER			NGLE X	ZONE		8. FARM OR LEASE		'n
NAME OF OPERATOR							New Mexic	o F ede	**a+ /7
Cleary Petrol	<u>leum Corporatio</u>	n					A		
							2-	OF OR IT	
P. O. Drawer L LOCATION OF WELL (Re	2358, Midland,	lexas /9/	102 hans S	tate requirement	ts * 1		SACTO PO	AKE /	Leon
At surface)' FNL & 1980'			,	,	-	II. SEC. T. P. M.	OR BIX	GAS
		: L_L					AND SCRVEY C	IR AREA [1
At proposed prod. zone	•						Sec. 4, T	-21-S	R-32-F
4. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	EEST TOWN OR POS	r office	•		[12. COUNTY OR PA		
5 miles SE of	f Halfway, New	Mexico					Lea		N. M.
4			16. NO	. OF ACRES IN L	EASE		F ACRES ASSIGNED IS WELL		
PROPERTY OR LEASE L. (Also to nearest drig	1980' to 7 ine, Fr. unit line, it any 660'	to unit 1	ne	2282.84			320		
8. DISTANCE FROM PROPO TO NEAREST WELL, DE	OSED LOCATION*		19. PR	OPOSED DEPTH		20. ROTAL	Y OR CABLE TOOLS		
OR APPLIED FOR, ON THE	S LEASE, FT.	800'		14,250		R	otary		
21. ELEVATIONS (Show whe							22. APPROX. DAT	E WORE W	ILL START*
3673' (3R						12-1	-77	
3 3.	,	ROPOSED CASI	NG AND	CEMENTING	PROGRAM	ſ			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00T	SETTING DE	РТН		QUANTITY OF C	EMENT	
17½"	13 3/8"	54.5#		470	1	6	50 (circula	te)	
12¼"	9 5/8"	43.5 & 40		5200			(circulate	– 2 st	tages)
7 7/8"	51211	17 & 20#	‡	14250	1	6	75 		
		I	1	ı	. '		م ارز		
									, 14.
C	-h	المساهية			. Τ1∈.	7 7		211-1	. .
See attached	sheet for casi	ng and ceme	entin	g programs	s. ine	e well	will be ar	iiiea	to a

depth of 14,250' to test the Morrow Sands. Dual 1500 series ram type blowout preventers and one Hydril, will be used. CONDITIONS OF APPROV Commenced, this dri-FFB 2 1 1978 U. S. GEOLOGICAL SURVEY HOBBS, NEW MEXICO IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, wive pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any, preventer program, if any. 24. PERMIT NO. APPROVAD BY ____

Operator CLEARY PETROLEUM CORP. NEW MEXICO FEBERAL Township Ronae "G" 21-S LEA Actual Fratage Location of Wells 1980 feet from the NORTH 1980 feet from the EAST 1980 EAST Ground Level Elev. Producing Formation MORROW SAND 3673 320 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? If answer is "yes," type of consolidation _ 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 Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. CLEARY PETROLEUM COR NEW MEXICO FEDERAL 320 ACRES Company Cleary Petroleum Corporation October 19, 1977 I hereby certify that the well location 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. 11 1 1 m OCTOBER 17, 1977 Registered Professichts Engineer. CLEARY PETROLEUM CORP. and/or East Survey 15 10 NEW MEXICO FEDERAL "D" Mary Color MAX A SCHUMANN IR Certificate (q. 7.50 CLEARY PETROLEUM CORP. NEW MEXICO FEDERAL "C"

1320 1650 1880 2310 2640

2000

1000

3000 1b: WP BOP

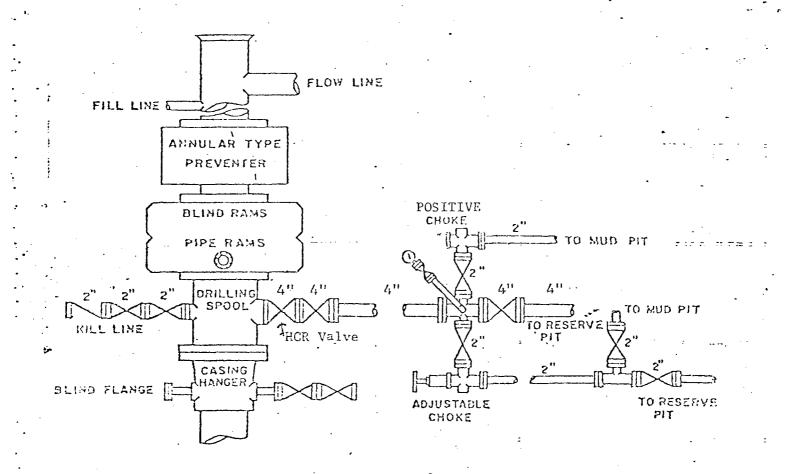
12" Shaffer Type B Hydraulic BOP 3000 PSI

12" GK Hydril 3000 WP

160 Gallon - 7 Station Koomey Accumulator with Remote Control

5000 lb. WP Choke Manifold

10" Type U Cameron 5000 WP, Double BOP



Petroleum Information	le .		€ Copyright	fed Reproduction Prohibited
CAND LEA	HID Salt Lake	. S	STATE NIM	
CLEARY PETROLI	EUM CORP.		. 1230-	-025-25751
a 2 HAN New Me	exico "A" Federa	1	MAP	
Sec 4, T21S, 1	R32E		COORD	
1980' FNL, 198	80' FEL of Sec		9-3	3-25 NM
4 mi SE/Halfwa			78 (MP 8-9]_ 78
st.	WILL CL	ASS: INITE	IN DG ELEV	
13 3/8" at 473' w/6	650 sx FORMATI	ON DATUM	FORMATION	DATEM
9 5/8" at 5192' w/3	3250 sx			<u> </u>
5 1/2" at 14,047' v	w/525 sx			
	10 14,0	47' (BRNT)	PHD 13,710)'
IP (Morrow) Perfs				
test thru 28/64" cl				
	, , ,	5.5 (,)	, -	
				
CONIR Ard	OPRSELEV 3	562' GL	PD 14	.250' RT

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F.R. 12-5-77
              (Morrow)
12-19-77
              AMEND API NUMBER: Formerly reported as
              30-025-25752
3-27-78
              Drlg 1770'
              Drlg 4420' 1m
Drlg 6021' 1m & sh
4-4-78
4-12-78
              Drlg 8821' 1m & sh
4-18-78
4-24-78
              TD 10,490'; Stuck DP
              Drlg 11,666' 1m & sh
Drlg 12,560' sh, 1m & cht
5-2-78
5-9-78
5-16-78
              Drlg 13,281'
5-23-78
              Drlg 13,502' sh & 1m
              Drlg 13,939' sh
5-31-78
              TD 14,047'; WOC
6-6-78
6-13-78
              TD 14,047'; RUCU
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LEA Salt Lake, S. NM2 New Mexico "A" Federal Sec 4, T21S, R32E CLEARY PETROLEUM Page #2 6 - 20 - 78TD 14,047'; Prep DST DST (Morrow Sand) 13,730-740', op 3 hrs, 35 mins, rec 20' brine wtr, 1 hr 32 min ISIP 1988#, FP 47-33#, 18 hr FSIP 4713# 6-26-78 TD 14,047'; PBD 13,796'; Swbg DST (Lower Morrow) 13,823-842', op 3 hrs, 30 mins. rec 60' SW, 1 hr 32 min ISIP 167#, FP 45-59#, 15 hr, 48 min FSIP 1513# Perf (Lower Morrow) 13,823-830', 13,834-842' w/l SPF; Set CIBP @ 13,796' (w/2 sx cmt on top) Perf (Morrow Sand) 13,730-740' w/1 SPF Acid (13,730-740') 2150 gals; 7-5-78 TD 14,047'; PBD 13,710'; Tstg PB to 13,710' Perf (Morrow Sand) 13,546-693'

Flwd @ 700 MCFGPD, 20/64" chk, TP 500# in 24
hrs (13,546-693')

7-11-78

TD 14,047'; PBD 13,710'; SI/WOPL
Perf (Morrow Sand) 13,314-318' w/1 SPF
Acid (13,314-693') 3150 gals

9-11-78

TD 14,047'; PBD 13,710'; Complete
LOG TOPS: Rustler 1384', Yates 3422', Capitan Reef
3610', Delaware 5222', Bone Spring 8400', Wolfcamp
10,900', Strawn 12,482', Atoka 12,634', Morrow
13,152', Barnett Shale 13,907'
LOGS RUN: ACSL, NEUT, VEL, FRXL, GRDL, MICL, GRL, CCL
9-16-78

COMPLETION ISSUED