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TO SEREST WELLING COMPLETED. OF APPLIE POR OF THIS LARK FT.       15,800'       Rotary         22. APPROX. DATE WORK WILL START       22. APPROX. DATE WORK WILL START         GL 3454.2       PROPOSED CASING AND CEMENTING PROGRAM         SIZE OF HOLE         SIZE OF HOLE         APPROX. DATE WORK WILL START         24" 20" 94# 500'+ 500 Sx + . Circ. to surfac         12-1/4" 9-5/8" 17, 48, 54, 54, 54, 4,000'+ 1100 Sx + . Circ. to surfac         12-1/4" 9-5/8" 17, 48, 40# 12,000'+ 500 Sx + . Circ. to surfac         81716 0711         CONSTRUCT THE LOOK SATE . Circ. to surfac         12-1/4" 9-5/8" 11 her 39# 12,000'+ 400 Sx + .         81716 0714 400 Sx + . Circ. to surfac         81716 0714 400 Sx + .         6-1/2" 7-5/8" Liner 18# 15,400'+ 400 Sx + .         Colspan="2">Colspan= are attached.         Gas is dedicated.         Inter 18# 15,400'+ 400 Sx + .         Imposal is to decide and proposal is to decide or plug back, give data on present productive zone and proposed new productive.         Colspan= 16 point for parama is a subsurface lections and measured and true vertical deptas, Gire bloward         Imposal is to define and proposed is to decide use)         PATE	(Also to nearest d	rlg. unit line, if any)	660'		640			320	
OR APPENDE DRO. OF THIS LEASE, PT.       15,800'       Rotary         CALL       22. APPROX. DATE WORK WILL START*         GL 3454.2       PROPOSED CASING AND CEMENTING PROGRAM         SEE OF HOLE       SEE OF CASING       WEIGHT PER POT         24"       20"       94#         17-1/2"       13-3/8"       68.61.6 £ 54.5#         12-1/4"       9-5/8"       47,43.5 & 40#       12,000'+         13-3/8"       68.61.6 £ 54.5#       4,000'+       100 sx + . Circ. to surface         12-1/4"       9-5/8"       47,43.5 & 40#       12,000'+       500 sx +         8-1/2"       7-5/8" Liner       39#       14,500'+       400 sx +         6-1/2"       5" Liner       18#       15,400'+       400 sx +         0rilling procedure, BOPE diagrams, anticipated formation tops       Surface use plans,         and casing design program are attached.       Gas is dedicated.       If yoposal is to deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths, Gire blowour         storep page.       True       Engineering Assistant       Date         MOVE SPACE DESCHEE PROFOSED FROCEAN : If proposal is to deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths, Gire blowour         storep page.       If any.						20. ROT.	ARY OR CABLE T	OOLS	
EAPLATIONS (Show whether DP, RT, GR, etc.)       22. APPROX. DATE WORK WILL START*         GL 3454.2       PROPOSED CASING AND CEMENTING PROGRAM         RIFE OF FALL       RIFE OF CASING       WEIGHT PRE POOT         SET OF PALL       RIFE OF CASING       WEIGHT PRE POOT         SET OF PALL       RIFE OF CASING       WEIGHT PRE POOT         SET OF PALL       RIFE OF CASING       WEIGHT PRE POOT         SET OF PALL       RIFE OF CASING       WEIGHT PRE POOT         SET OF PALL       RIFE OF CASING       WEIGHT PRE POOT         SET OF PALL       RIFE OF CASING       WEIGHT PRE POOT         SET OF PALL       RIFE OF CASING       WEIGHT PRE POOT         SET OF PALL       START*       GONTTY OF CEMERT         24"       20"       94#       500"+         12-1/4"       9-5/8"       47,43.5 & 40#       12,000"+         Sold SET OF SET Liner       13#       15,400"+       400 SX +         6-1/2"       5" Liner       13#       15,400"+       400 SX +         Drilling procedure, BOPE diagrams, anticipated formation tops.       Surface use plans,         and casing design program are attached.       Gas is dedicated.       Gas is dedicated.          If proposed be to drill or despen directionally, give pertinent data on suba	OR APPLIED FOR, ON	THIS LEASE, FT.			15,800'	ļ I	Rotary		
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NEW OF HOLE       SIZE OF CASING       WEIGHT FERFORT       SETTING ORTHING       QUANTITY OF CEMENT         24"       20"       94#       500'+       500 sx +       Circ. to surface         17-1/2"       13-3/8"       68,61 & 54,5#       4,000'+       1100 sx +       Circ. to surface         12-1/4"       9-5/8"       47,43.5 & 40#       12,000'+       500 sx +       Stream       500 sx +         8-1/2"       7-5/8"       Liner       39#       14,500'+       400 sx +       500 sx +         6-1/2"       5" Liner       18#       15,400'+       400 sx +       500 sx +         Drilling procedure, BOPE diagrams, anticipated formation tops, surface use plans, and casing design program are attached.       Gas is dedicated.       State of the specific scheme and proposed new productive zone and proposed new productive.         . If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical deptas. Give blowout enter program. If any.       State of Federal or State office use)         State of Federal or State office use)       State office use)       State office use)       State office use)	GL 3454.2								
NEW OF HOLE       SIZE OF CASING       WEIGHT FERFORT       SETTING ORTHING       QUANTITY OF CEMENT         24"       20"       94#       500'+       500 sx +       Circ. to surface         17-1/2"       13-3/8"       68,61 & 54,5#       4,000'+       1100 sx +       Circ. to surface         12-1/4"       9-5/8"       47,43.5 & 40#       12,000'+       500 sx +       Stream       500 sx +         8-1/2"       7-5/8"       Liner       39#       14,500'+       400 sx +       500 sx +         6-1/2"       5" Liner       18#       15,400'+       400 sx +       500 sx +         Drilling procedure, BOPE diagrams, anticipated formation tops, surface use plans, and casing design program are attached.       Gas is dedicated.       State of the specific scheme and proposed new productive zone and proposed new productive.         . If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical deptas. Give blowout enter program. If any.       State of Federal or State office use)         State of Federal or State office use)       State office use)       State office use)       State office use)			PODORED GARIN		CHANDING DROOD				
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17-1/2"       13-3/8"       68,61 & 54,5#       4,000 +       1100 sx +       0 file. Construction of the second se			WEIGHT PER FO	от	SETTING DEPTH		QUANTITY	OF CEMEN	r .
17-1/2"       13-3/8"       68,61 & 54.5#       4,000'+       1100 sx +       Circ. to Surface         12-1/4"       9-5/8"       47,43.5 & 40#       12,000'+       500 sx +       400 sx +         8-1/2"       7-5/8" Liner       39#       14,500'+       400 sx +         6-1/2"       5" Liner       18#       15,400'+       400 sx +         Drilling procedure, BOPE diagrams, anticipated formation tops, surface use plans, and casing design program are attached.       Gas is dedicated.         Gas is dedicated.       (*       (*       (*         Invoke SPACE DESCRIBE PROFOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive cate program. if any.       (*         Stavep Mignan, if any.       TIPLE       Engineering Assistant       DATE         Stavep Mignan, if any.       TIPLE       Engineering Assistant       DATE         APPROVED BY       TIPLE       TIPLE       Date	24"	20"	94#		500'+	500	0 sx + .	Circ	to surfac
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6-1/2" 5" Liner 18# 15,400' ± 400 sx ± Drilling procedure, BOPE diagrams, anticipated formation tops, surface use plans, and casing design program are attached. Gas is dedicated.									
Drilling procedure, BOPE diagrams, anticipated formation tops, surface use plans, and casing design program are attached. Gas is dedicated.	•								
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APPROVAL DATE	(This snace for Fed	deral or State office use)							
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APPROVED BY DATE DATE	PERMIT NO.				APPROVAL DATE 5-5	19-8	<u> </u>		
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	CONDITIONS OF APPRO						Jait _		
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U.S. C. CAL SURVEY Artesia, New Mexico

# MEXICO OIL CONSERVATION COMMIS

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

	All distances must be fro	m the outer boundaries of	the Section.	
ry R. Bass	1		e Unit	Well No. 52
Section 10	Township 24 South	Range 30 East	County Eddy	
cation of Well:	North	1980	East	
Producing F	ormation F	2001	De	dicated Acreage: 320
		****		Acres
chan one lease i and royalty).	в dedicated to the well,	outline each and ide	ntify the ownership ther	eof (both as to working
communitization,	unitization, force-pooling	3. etc?		
if necessary.)				
ble will be assig bling, or otherwise	ned to the well until all i e)or until a non-standard	nterests have been c unit, eliminating suc	consolidated (by commu h interests, has been ap	nitization, unitization, proved by the Commis-
1 <b>011111111111111111111111111111111111</b>		·····	c	ERTIFICATION
		l I	I hereby certi	fy that the information con-
ł	<u>م</u>			is true and complete to the owledge and belief.
1			Stephen	~ Smith
			Stephen	Smith
1		ł	Position	ing Assistant
		i t	Company	
1		1	Date	
		1		/81
1			heroby car	Withat the well location
Î		I	shown on this	pland from field
		1		al surveys node by me or maisign gring that the same
;   		ENGINEER &		belief.
	REG. PA	676 SURV	Date Surveyed	14-81
				14-01 Issional Engineer
l		MexIC S	and/or Land Sur	
   		A MEXICO S	4 1	
	Section 10 Cation of Well: teet from the Producing F Producing F he acreage dedic than one lease of communitization, No If is "no," list the if necessary.) ble will be assigned	ry R. Bass       I         Section       Township         10       24 South         cation of Well:       North         teet from the       Ine and         Producing Formation       F         Morrow       F         than one lease is dedicated to the subject well         than one lease is dedicated to the well,         and royalty).         tean one lease of different ownership is de         communitization, unitization, force-pooling         No       If answer is "yes," type of         is "no," list the owners and tract descriif necessary.)	ry R. Bass           Section         Township         Poker Lak           Section         10         24 South         30 East           cation of Well:         Ine and         1980         ree           is extracted to the subject well by colored pencil of Morrow         Mor         Wi           he acreage dedicated to the subject well, outline each and ide and royalty).         and none lease is dedicated to the well, outline each and ide and royalty).           team one lease of different ownership is dedicated to the well, communitization, unitization, force-pooling, etc?         In one If answer is "yes," type of consolidation	Cry R. Bass       Poker Lake Unit         Section       Township       24 South       30 East       County         Itee form the       North       Ine and       1980       reat form the       East         Production of Well;       Production of Well;       Production the start       Divertion the form the       Divertion the form the         Production of Well;       Production of Well;       Production the start       Divertion the       Divertion the         Production of Well;       Production the start       Production the start       Divertion the       Divertion the         Item one lease is dedicated to the well, outline each and identify the ownership therm and royalty).       Item one lease of different ownership is dedicated to the well, have the interests of all communitization, unitization, force-pooling, etc?       Unit       Item one consolidated (by communiting or otherwise) or until a non-standard unit, eliminating such interests, has been ap         Item of the well of the well until all interests have been consolidated (by communiting, or otherwise) or until a non-standard unit, eliminating such interests, has been ap       Production of areas of action



## UNITED STATES DEPARTMENT OF THE INTERIOR

RECEIVED

IN REPLY REFER TO:

JUN 2 1981

GEOLOGICAL SURVEY South Central Region F.O. Box 26124 Albuquerque, New Mexico 87125

O. C. D. ARTESIA, OFFICE

MAY 2 9 1981

Perry R. Bass P.O. Box 2760 Midland, Texas 79702

Gentlemen:

Your application for Permit to Drill well No. 52 Poker Lake Unit in the  $NW_4^4NE_5^4$  sec. 10, T. 24 S., R. 30 E., Eddy County, New Mexico, lease LC-068905, to a depth of 15,800 feet to test the Morrow formation in the oil-potash area, is hereby approved as amended by stipulations attached to the application.

One copy of the application is returned herewith. Please notify the District Supervisor, Geological Survey, Roswell, New Mexico, in sufficient time for a representative to witness all cementing operations.

Sincerely yours,

(DRIG. SGD ) JAMES W. SHELTON Gene F. Daniel Oil and Gas

Enclosure

cc: / NMOCD (2) BLM-Carlsbad

Actin Burleson Vet/81 Stewart 5/26/81 5/28/81 5-28-81

MAY 2 9 1981

Ferry R. Sass P.O. Box 2760 Ridland, Janas 79702

Gentleser:

Your appliestion for Vermit to Drill Well So. 52 Fotor Lake Unit in the NHAME'S soc. 10, T. 14 S., R. 30 E., Eddy County, Sow Mexico, lease 10-068905. to a depth of 13.805 feet to test the Morrow formation in the oll-potesh area, is hureby approved as amonded by stipulations attached to the application.

South Central Begion F.O. Box 20124

Albastusrape, New Mexico 37125

One copy of the application is returned herewith. Finane notify the District Supervisor, decloyical durvey, Reswell, New Maxico, in sufficient time for a representative to witness all centrating operations.

Sincerely yours,

(ORIG. SGD.) JAMES W. SHELTON

FCR · Cons F. Baniel Oll and Gas

Luciosare

cc: MNOCD (2) ELM-Carlsbad

DM, SCR DCM-Mining (2) Regional Files (2) Artesia ~ (District Copy) ARP RCF

CFlaherty:cg:5/18/81

JUN 2 1981 O. C. D.

ARTESIA, OFFICE

RECEIVED

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## CASING DESIGN

Poker Lake Unit No. 52

## SURFACE CASING

Segment	Size	Grade	Thread	Weight	Тор	Bottom	Length
1	20"	H-40	ST&C	94#	0'+	500' <del>+</del>	500' <del>'</del>

## INTERMEDIATE CASING

Segment	Size	Grade	Thread	Weight	Тор	Bottom	Length
1	13-3/8"	S-80	ST&C	68#	$3,800'\frac{+}{+}$	4,000' <sup>+</sup>	$200'\frac{+}{+}$ 1,000'\frac{+}{+} 1,400'\frac{+}{+} 1,400'-
2	13-3/8"	S-80	ST&C	61#	2,800' $\frac{+}{+}$	3,800' <sup>+</sup>	
3	13-3/8"	K-55	ST&C	61#	1,400' $\frac{+}{+}$	2,800' <sup>+</sup>	
4	13-3/8"	K-55	ST&C	54.5#	0' $\frac{+}{-}$	1,400' <sup>-</sup>	

## INTERMEDIATE CASING

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Segment	<u>Size</u>	Grade	Thread	Weight	Тор	Bottom	Length
1 2 3 4 5	9-5/8" 9-5/8" 9-5/8" 9-5/8" 9-5/8"	S-95 • S-95 S-95 N-80 S-95	LT&C LT&C LT&C LT&C LT&C LT&C	47# 43.5# 40# 40# 40#	10,360'+ 7,400'+ 2,820'+ 1,040'+ 0'-	$10,360'^{+}_{+}$ 7,400'^{+}_{-}	1,640'+ 2,960'+ 4,580'+ 1,780'+ 1,040'-
			DRILLING	LINER			
Segment	Size	Grade	Thread	Weight	Тор	Bottom	Length

1	7-5/8"	S-95	LT&C	39#	11,500'+	14,500' <del>'</del>	3,000'+

			PRODUCTIO	N LINER		A
Segment	Size	Grade	Thread	Weight	Top	Botterns Length
1	5"	N-80	Super Flush	18#	14,000' <del>-</del>	15,400'

## POKER LAKE UNIT NO. 52

Anticipated Formation Tops (GL 3454')

T/Rustler	450'	(+ 3,004')
T/Salt	850 '	(+ 2,604')
B/Salt	3,750'	(- 296')
T/Delaware	3,950'	(- 496')
T/Bone Springs	7,750'	(- 4,296')
T/Wolfcamp	11,350'	(- 7,896')
T/Strawn	13,450'	(- 9,996')
T/Atoka	13,650'	(-10,196')
T/M. Morrow	14,750'	(-11,296')
T/L. Morrow	15,200'	(-11,746')

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#### POKER LAKE UNIT NO. 52

#### Location:

1980' FEL, 660' FNL, Sec. 10, T24S, R30E

Conductor Casing:

40' + of 30'' conductor casing will be set with a rathole machine and cemented to the surface with ready mix.

Surface Hole:

A 24" O.H. will be drilled to 500' + (Rustler) and 20" 94#/ft H-40 casing run to total depth. The surface casing will be cemented with  $\pm 500$  sx Class "C" plus 2% CaCl<sub>2</sub>. Cement must be circulated to the surface.

Total WOC time is 8 hours.

Nippling Up 20" Casing:

After waiting 4 hours, "nippling up" procedures may begin. A 20" SW 3000# WP x 20" 2000# WP casinghead will be welded in place. A set of hydraulic operated pipe and blind rams will then be installed (see BEPCO II attached) and tested to 1000 psi with the rig pump.

The results of this test must be reported in the daily driller's log.

#### Intermediate Hole:

A 17-1/2" O.H. will then be drilled to 4000'+ with 10 ppg BW (T/Delaware Mtn. Group); 13-3/8" casing will be run to total depth and cemented with approximately 800 sxs Halliburton Lite plus 8# NaCl/sx plus 1/4#/sx flocel, "tailed-in" with 200 sx Class "C" with 2% CaCl<sub>2</sub> plus 1/4#/sx flocel. Cement will be cirulated to the surface.

Total WOC time for this casing string will be 12 hours.

#### Nippling Up the 13-3/8" Casing:

After waiting 4 hours, "nippling up" procedures may begin. The 20" casinghead will be removed and a 13-3/8" SW 5000# WP x 12" 5000# WP casinghead installed.

A BOP stack consisting of hydril, pipe rams and blind rams will be installed as per BEPCO Drawing IV (attached). This BOP stack will be hydrostatically tested to 5000 psi (Hydril 1500#) by Yellow Jacket. The USGS will be notified in sufficient time to witness the testing of the 13-3/8" BOP stack. A copy of the test results will also be furnished to the USGS.

The results of this test will be recorded in the daily drillers log.

#### Production Hole:

A 12-1/4" O.H. will then be drilled to 12,000'. The drilling fluid will be fresh water to 11,300'+ and 10 ppg brine from T/Wolfcamp to 12,000', with variations in mud weight as dictated by formation pressures. A PVT recorder, flowshow sensor and rotating head will be installed before drilling the Wolfcamp.

9-5/8" casing will be run to 12,000'. This casing string will be cemented with approximately 900 sx Class "H" plus 0.3% CFR-2, plus 0.6% Halad 22. The cement volume should be sufficient to bring the cement top 1000' above the Wolfcamp.

After waiting on cement 4 hours, the 9-5/8" casing can be cut off and a 12" 5000# x 10" 5000# casing spool installed. The same BOP stack, i.e. 2 sets of rams and hydril as per BEPCO IV (attached) will be installed. The stack will again be tested to 5000 psi (hydril 1500 psi) with Yellow Jacket.

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8-1/2" OH will then be drilled to 14,500' with a 10.1-13.0 ppg brine water fluid. At 14500' a 7-5/8" liner will be run and cemented with approximately 500 sx Class "H" plus 0.3% HR-4.

After testing this liner top to 2000 psi, a 6-1/4" OH will be drilled to TD (15400'+) and a 5" liner set. The 5" liner will be cemented with + 400 sx Class "H" plus 0.3% HR-4.

Time: This well is estimated to take 99 days from spud to TD.

Gary Gerhard

GEG/jj

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## POKER LAKE UNIT #52

Mud Program

Interval	Type	Wt. (Approx.)	<u>Vis.</u>	Wtr. Loss
0' - 500' <u>+</u>	Fresh Wtr.	8.4 - 8.8#	34 - 40	NC
500' <u>+</u> - 4,000' <u>+</u>	Brine Wtr.	10.0#	28 -30	NC
4,000' <u>+</u> - 11,350' <u>+</u>	Fresh Wtr.	8.4 - 8.9#	28 - 32	NC
11,350' <u>+</u> - 12,000' <u>+</u>	Brine Wtr.	9.2 - 9.4#	28 - 32	NC
12,000' <u>+</u> - 13,650' <u>+</u>	Brine Wtr.	10.0 - 10.3#	28 - 30	NC
13.650' <u>+</u> - 14,500' <u>+</u>	Brine Wtr.	12.5 - 14.0#	34 - 40	15 CC
14,500' <u>+</u> - TD	Brine Wtr.	10.1 - 10.3#	32 - 34	10 CC or Less