Distric. I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aziec, NM 87410 District IV

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-101 Revised February 21, 1994 Instructions on back

Submit to Appropriate District Office State Lease - 6 Copies

Fee Lease - 5 Copies

MENDED REPORT

PO Box 2088, Sar	ita Fc, NM	8/304-2088							<u> </u>] AMENI	DED KEPOKI	
APPLICA	TION	FOR PER				TER, DEE	PE	N, PLUGBA	ACK,		DD A ZONE	
Operator Name and Address.									³ OGRID Number 037581			
THOMPSON ENGINEERING & PRODUCTION CORP. 7415 E. Main								L	PI Number			
		ı, New M	exico	87402	505	327-4892				Į.	5-29398 L	
⁴ Property Code					5 P	roperty Name	-				· Well No.	
19038			State								2R	
				<u> </u>	⁷ Surface	·						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South L	ine	Feet from the	_	Vest line	County	
P	2	26N	13W		1000	South		790	Eas	st 	SJ	
			<u> </u>					t From Sur			1 0 .	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South L	ine	Feet from the	EMNUY	Vest line	County	
87190 3	H. Lua	Propose	d Pool 1	<u> </u>	Ι	<u> </u>		16 Propos	ed Pool	2	l	
WAW,	Pictu	red Clif	fs 16	0								
	<u> </u>											
" Work Type Code		12	Well Typ	e Code	13 Cable	Rotary 14 L		14 Lease Type Code		S Ground Level Elevation		
N			G		R			S		6030'		
16 Multiple		17	17 Proposed Depth		"Formation Pictured Cliffs			'' Contractor		³⁸ Spud Date 8/26/96		
No			1330		i <u></u>	l		ayne Smith	<u></u>	0/20		
	·				ed Casing a					. 1 .	Estimated TOC	
	Hole Size				ng weight/foot Setting De K-55 120'		pth	h Sacks of Cement		Surface		
8-3/4"		<u></u>	11		20# K-55 10.50# K-55		1330'		90 & 75 sx			
6-1/4"		4-1/2		10.3	U# K-33	1330		70 4 7	<u> </u>			
Describe the	proposed p	rogram. If thi	s applicati	on is to DEE	PEN or PLUG BA	CK give the date	on t			and propos	ed new productive	
					dditional sheets if						ering real	
Pro	pose t	o drill	a ver	tical w	ell to tes	st the Pic	tur	ed Cliffs	Form	ation		
acc	ording	to the	attac	nea Ope	rations Pl	.dll•		回回	A	204#		
										SIAI	EW.	
								AR VI	16 2	1 1996	ען	
										, 1000		
									CO	No D	Π777	
²³ I hereby certif			n above is	true and comp	olete to the best	OII	LC	ONSERVA	ADDR.	D B VIS	ION	
of my knowledge and befief. Signature:						Approved by: 5 3 21/8						
Printed name:	<u> </u>	<u> </u>	C.		T	itle: penuty	<u>n</u>	a cae inforc		CT 112	·····	
Printed name: John C. Thompson Title:						Approval Att G 2 1 1996 Expiration DaAUG 2 1 1997						
Date:	nt		Phone:			Conditions of Appr	oval:					
	1/96			327-489	- 11	Attached 🗆						

District I PO Box 1988, Hobbs, NM 88241-1986 District II PO Drawer DD, Artonia, NM 88211-0719 District III 1008 Rio Bruzos Rd., Aztoc, NM 87416 District IV

PO Box 2008, Santa Fc. NM 87504-2008

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102
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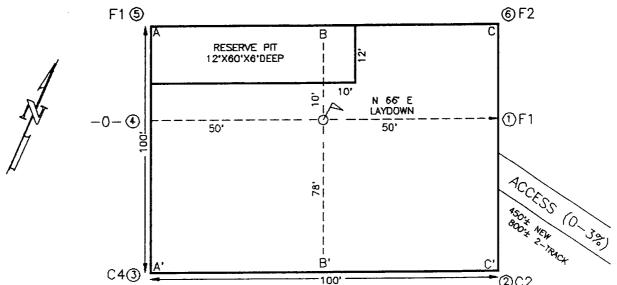
AMENDED REPORT

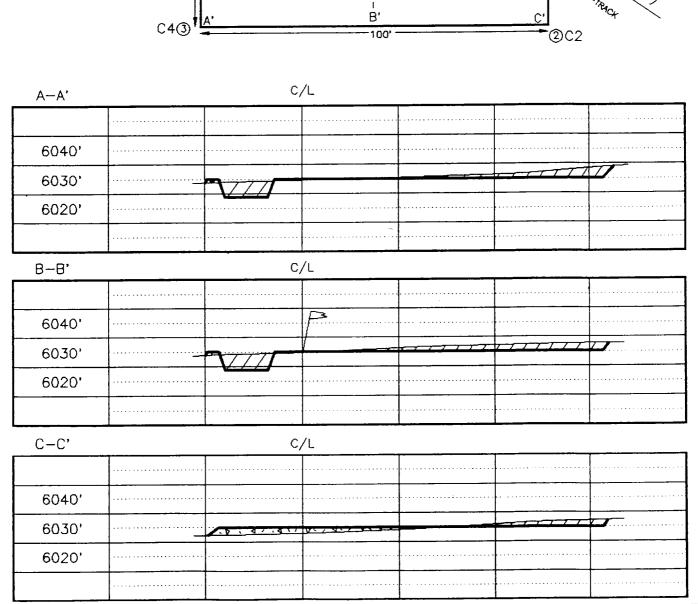
		w	ELL LO	CATIO	N AND AC	REAGE DEDI	CATION PI	LAT			
30-0	er 9.391		1 Pool Cod 87190	· .	Ant And 'Pool Name WAW, Pictured Cliffs						
' Property Code				0 7.70	'Property State	Name * Well Nu				Well Number 2R	
'OGRID No.			Thomps	on Eng	'Operation ineering	rator Name ag Corp.			Elevation 6030 '		
					10 Surface	Location			<u> </u>		
UL or lot no.	Section 2	Towaship 26 N	Range 13 W	Lot Ida	Feet from the	North/South line South	Feet from the 790	East/We		County S.J.	
			11 Bot	tom Hol	e Location I	f Different Fro	om Surface	1			
UL or lot so.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/Wes	t line	County	
12 Dodicated Acr	cs 13 Joint	or lafil 14	Consolidatio	a Code 15 C	rder Na.	<u> </u>		L			
	VABLE V					ON UNTIL ALL EEN APPROVED			EN COI	NSOLIDATED	
			5280	2.00			i i i	17 OPERATOR CERTIFICATION I hereby certify that the information commined herein is			
1		3			2	true and complete to the best of my			11		
4					_	•	1	6 C-A			
		•				Signature	2 (,	<u>/ (</u>	7-		
DECE		VER				John C. Thompson Printed Name Agent					
1 1 1 1		196 0					Title 8/21/9	16			
MOUL COM DUM		/	<u> </u>			O Date					
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							7 - 30 - 9	96			
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			<i>52</i> 33	an'	1		Certificate Nu	Z T			

P.O. BOX 6612
FARMINGTON, NEW MEXICO 87402
(505) 325-2654

SURVEYS, INC.

NAME: JHOMPSON ENGINEERING CORP. STATE #2R
FOOTAGE: 1000' FSL 790' FEL
SECTION: 2 T 26 N, R 13 W, NMPM
COUNTY: SAN JUAN STATE: NEW MEXICO
ELEVATION: 6030' DATE: 7/30/96





State #2R

I. Location: 1000' FSL & 790' FEL

August 21, 1996

Sec 2 T26N R13W San Juan County, NM

Field: WAW Pictured Cliffs

Elevation: 6030'

Surface: State Minerals: LG 3735

II. Geology: Surface formation - Nacimento

A.	Formation Tops	<u>Depths</u>
	Kirtland	150'
	Fruitland	825'
	Pictured Cliffs	1234'
	Total Depth	1330'

Estimated depths of anticipated water, oil, gas and other mineral bearing formations which are expected to be encountered:

Water and gas - 825'; gas - 1234'

- B. Logging Program: Induction/Gamma Ray & Density/Neutron logs
- C. No over pressured zones are expected in this well. No H_2S zones will be penetrated in this well.

III. Drilling

A. Contractor: Wayne Smith

B. Mud program:

The surface hole will be drilled with a fresh water mud.

The production hole will be drilled with a fresh water polymer mud. The weighting material will be drill solids or if conditions dictate, barite. The maximum mud weight expected is 8.7 ppg.

C. Minimum Blowout Control Specifications:

Double ram type or annular type 2000 psi working pressure BOP with a rotating head. See the attached exhibits (1# through #3) for details on the BOP equipment. All ram type preventers and related equipment will be hydraulically tested at nipple-and after any use under pressure to 1000 psi. The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi.

IV. Materials

A. Casing program:

Hole Size	Depth	Casing Size	Wt. & Grade
8-3/4"	120'	7"	20#, K-55
6-1/4"	1330'	4-1/2"	10.5#, K-55

B. Float equipment:

- a) Surface Casing: None
- b) Production Casing: 4-1/2" cement guide shoe and self fill insert float collar. Place float one joint above shoe. Five centralizers spaced every other joint above shoe and five turbolizers every other joint from the top.

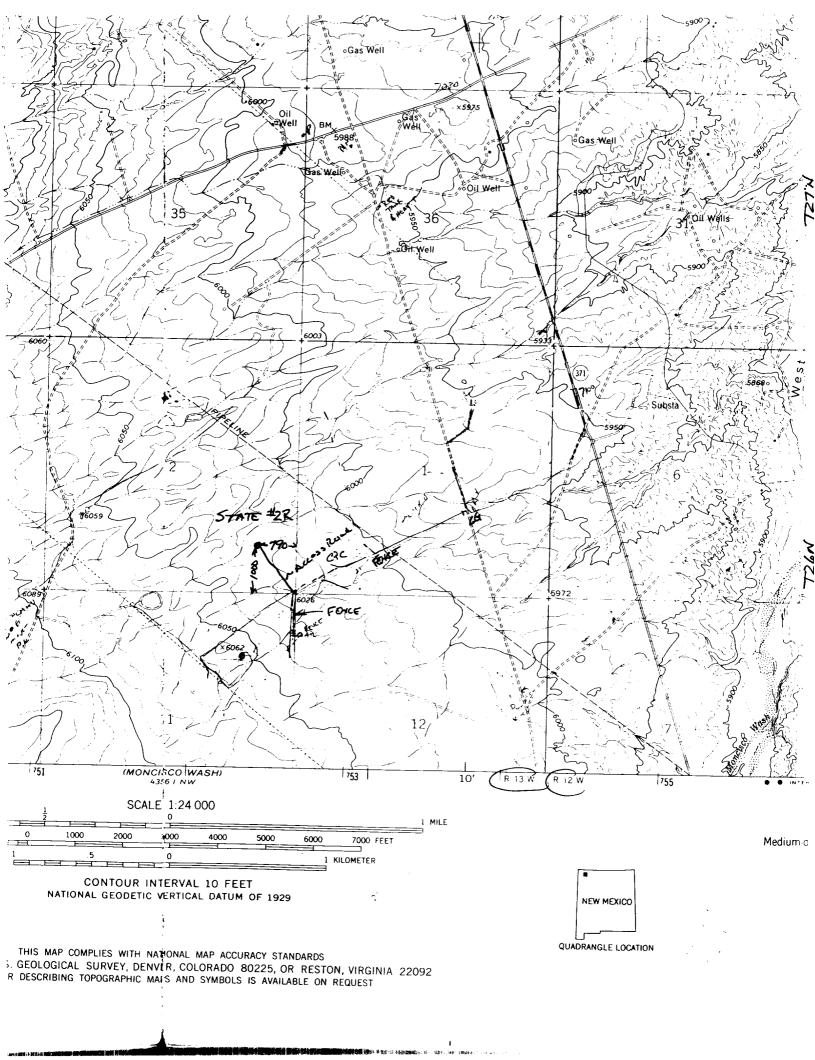
V. Cementing:

Surface casing: 7" - Use 30 sx (36 cu.ft.) of Cl "B" with 2% CaCl₂ (yield = 1.18 cu.ft./sk; slurry weight = 15.6 ppg). 100% excess to circulate cement to surface. WOC 12 hours. Pressure test surface casing to 600 psi for 30 min.

Production Casing: 4-1/2" - Before cementing circulate hole with at least 1-1/2 hole volume of mud. Precede cement with 30 bbls of fresh water. Lead with 90 sx (185 cu.ft.) of Cl "B" with 2% metasilicate. (Yield = 2.06 cu.ft./sk; slurry weight = 12.5 ppg). Tail with 75 sx (89 cu.ft.) of Cl "B" with 2% CaCl₂ (Yield = 1.18 cu.ft./sk; slurry weight = 15.6 ppg). Total cement volume is 254 cu.ft. (100% excess to circulate cement to surface).

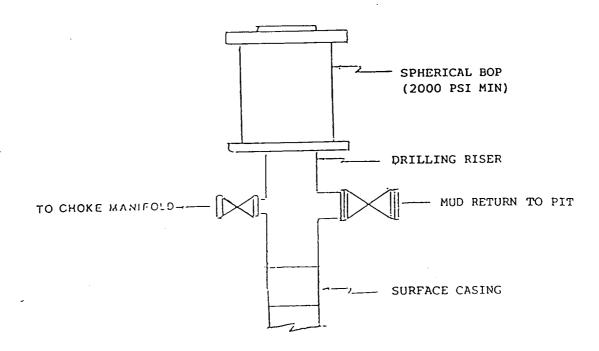
John C. Thompson

Engineer



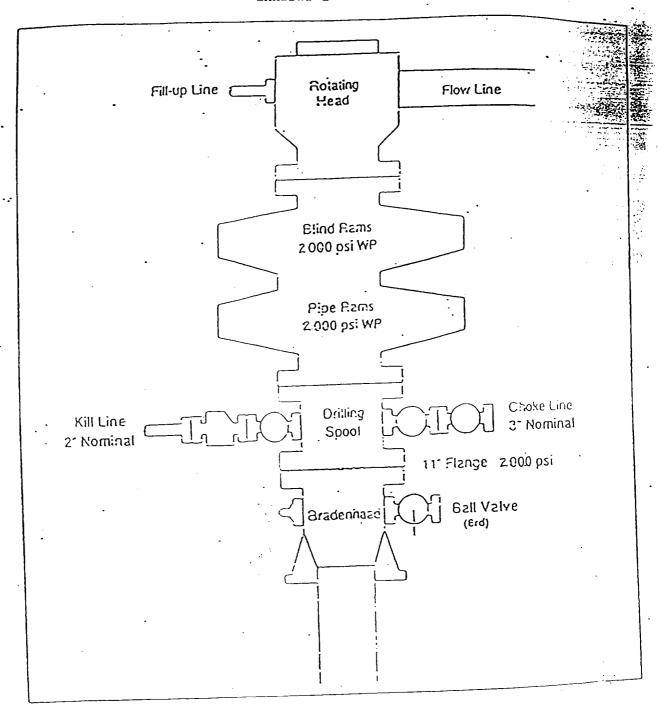
SCHEMATIC

EXHIBIT #1



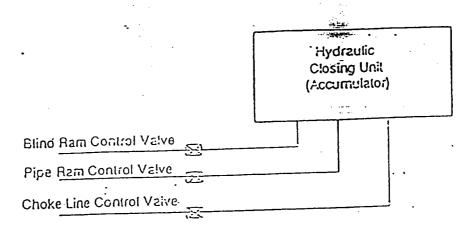
BOP STACK ARRANGEMENT

EXHIBIT 2

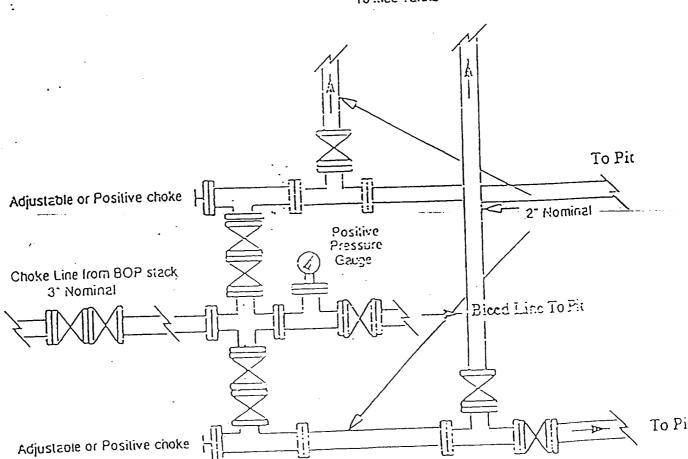


All ram type preventers and related equipment will be hydraulically tested at nipple-up and after any use under pressure to 1500 psi. The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a k cock with handle, floor safety valve with change overs for each tool joint in the string, and choke manifold all rated to 2000 psi.

EXHIBİT 3

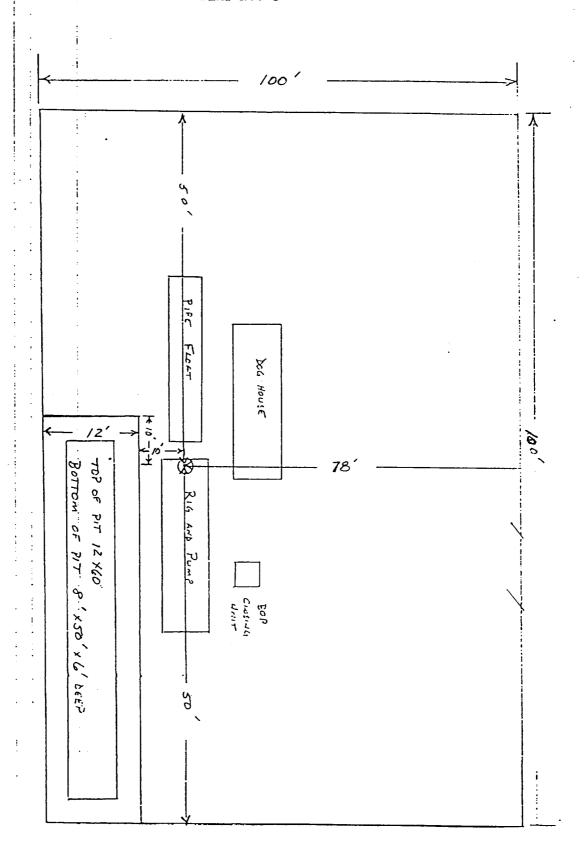


To Mud Tanks



PROPOSED RIG LAYOUT

PLAT NO. 3



Pet 1/18/93