State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION P. O. Box 2088 Santa Fe, New Mexico 87504-2088

APPLICATION OR PLUG BACK	FOR PERMIT TO	DRI	LL, DEEPEN	, API NO.	(assigned by OCD on new well					
Plugback				Fee	6. State Oil & Gas Lease No.					
1a. Type of	Work			7. Lease	e Name or Unit Agreement Nam					
b. Type of	Well				Lawson					
2. Name of	Operator			8. Well	No.					
Meridian	Oil Inc.			# 1	#1					
	of Operator			9. Pool	9. Pool Name or Wildcat					
	X 4289 STON, NM 8749	9		Basi	Basin Fruitland Coal					
4. Well Lo	ocation L									
	L, 1090' FWL, Sec	ction	12, T31N, R1	l1W, San Juan C	ounty, New Mexico					
10. Propose	ed Depth		11. Forma		12. Rotary or C.T.					
			Fruit							
13. Elevation	on 14. Bond T	уре	15. Dril	l Contractor	16. Est. Start Date					
5842' GL					See Note Below:					
				ND CEMENT PRO						
SIZE HOLE	SIZE CASING	WT	. PER FT.	SET. DEPTH	SKS OF CEMENT EST. TOP					
Verbal ap	dial cement/plugb proval to proceed es Gholson on Oct	l with	ı this projec	currently in post was received	rogress. from					
I hereby cer my knowledge	tify that the and belief.	info	ormation al	oove is true	and complete to the best of					
SIGNATURE	egaix Studpe	else s	SHL) TITK	Lgulalory	Offaur DATE 10-9-91					
(This space	for State Use)		•						
APPROVED BY	f approval, i	f an	TITLE	UTY OIL & GAS INSPE	CTOR, DIST. #2 DATE OCT 1 5 1991					
	- wegatively I	- a.i.	m Le							

OCT1 5 1991.

OIL CON. DIV. DIST. 3 Submit to Appropriate District Office State Lease - 4 copies Foe Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Artesia, NM 88210

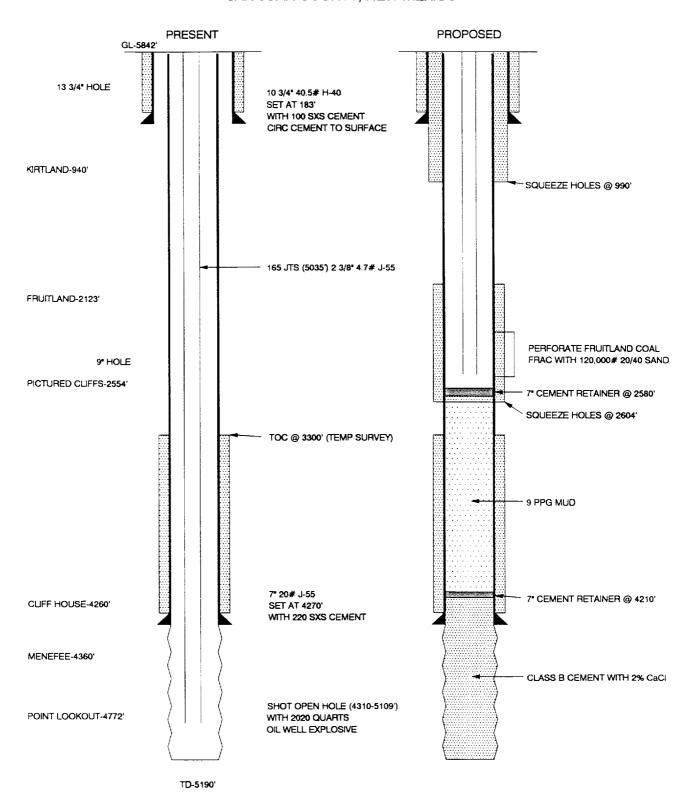
DISTRICT III
1000 Rio Brazos Rd., Azzec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT
All Distances must be from the outer boundaries of the section

perator	 				Leas				Well No.	
	and Ro	yalty (Compar	ny	Laws	son			1	
Init Letter	Section		ownship	-	Range			County		
L	12		31 No	orth	11 /	/est	NMPM	San	Juan	
ctual Footage Lo		1 :					_			
1650	1000 11000	sou		line az	d Pool	100	90 feet from	the West	line Dedicated Acre	
round level Elev. 5842 '	•	Fruitl		oa 1	Basi	n			320	-
-						merks on the plat	below.			Acres
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uniti	zation, force-j Yes	pooling, etc.?	io if	engwer is "Ves"	type of consolide	tion				
If answ	er is "no" list	the owners an	d tract desc	npuons which h	ave actually been	consolidated. (U	se reverse ade o	f		
this for	m if neccess	ry	a mail smail	all interests has	e here consolidat	ed (by communiti	zation, unitizatio	n. forced-poolin	e, or otherwise)	
or mani	a non-stands	rd unit, elimini	scing such is	Mercal, has been	approved by the	Division.				
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LAWSON #1

UNIT L, SEC 12, T31N-R11W SAN JUAN COUNTY, NEW MEXICO



Lawson #1 Recommended Recompletion Procedure

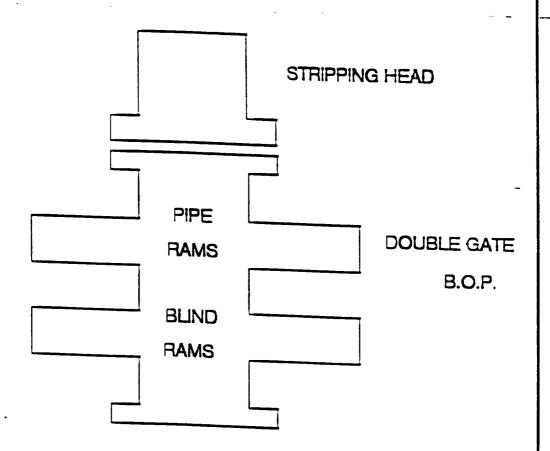
- 1. Move in blow tank for wellbore fluids. Install and test anchors as necessary.
- 2. MOL and RU workover rig equipped with power swivel, pump and steel pit. Hold safety meeting and comply with all BLM, NMOCD and MOI regulations.
- 3. RU return line to blow tank, record casing, tubing and bradenhead pressures. Blow well down and kill as required with water.
- 4. ND wellhead and NU 6" 3,000 PSI BOP and stripping head. Pressure test to 2000 PSI.
- 5. TOOH with 165 joints of 2 3/8" 4.7# J-55 tubing.
- 6. TIH with 6 1/4" bit and 7" casing scraper and clean out to bottom of 7" casing @ 4270'. TOOH.
- 7. Establish a rate with water down 7" casing into the Mesaverde open hole section. TIH with 2 3/8" tubing and 7" cement retainer. Set retainer at 4210', pressure test tubing to 2000 PSI, sting into retainer and establish a rate with water into the Mesaverde open hole section, mix and pump 414 sacks (100% excess) of class B cement with 2% CaCl. Sting out of retainer and spot 6 sacks of class B cement with 2% CaCl on top of retainer. Pull up one stand and reverse circulate with water.
- 8. Pump 65 BBLS of 9 PPG mud with a minimum viscosity of 50 sec/qt down 2 3/8" tubing. Pull up to 2605' and reverse circulate tubing with water. TOOH.
- 9. Pressure test 7" casing to 2000 PSI. RU wireline and run CNL-GR-CCL across the Fruitland from 2600' to 2000'.
- 10. RU wireline and perforate 4 squeeze holes at 2604' (Make certain wellbore is full prior to firing). Open bradenhead valve and establish circulation down 7" casing with water. TIH with 2 3/8" tubing and 7" cement retainer, set retainer at 2580'. Pressure test tubing to 2000 PSI. Sting into retainer and establish circulation into squeeze holes with water. Mix and pump 300 sacks of class B 50/50 POZ cement with 2% CaCl, tailed with 50 sacks of class B cement with 2% CaCl. (150% excess to cover from 50' below the top of the Pictured Cliffs to 1645') Sting out of retainer, close bradenhead valve and spot 6 sacks of class B cement on top of retainer. Pull up one stand and reverse circulate tubing with water. TOOH. WOC.
- 11. Pressure test 7" casing to 2000 PSI. RU wireline and run GR-CBL-CCL from 2500' to surface. (If necessary, squeeze cement to bring top of cement to 2023') Perforate squeeze holes at 990' (Make certain wellbore is full prior to firing). TIH with 2 3/8" tubing and 7" fullbore packer, set packer at 940', open bradenhead valve and establish circulation with water. Mix and pump 249 sacks of class B 50/50 POZ cement, circulate cement to surface. Once cement has been circulated to surface tail with 50 sacks of class B cement with 2% CaCl, close bradenhead valve and displace tubing and packer with water. WOC 30 minutes, release packer and reverse circulate 2 tubing volumes of water, pull 2 stands, reset packer and reapply squeeze pressure.

- 12. WOC. Release packer and TOOH. TIH with 6 1/4" bit and 7" casing scraper and clean out to 2570'. Pressure test squeeze to 2000 PSI. TOOH.
- 13. RU wireline and perforate Fruitland Coal 4 SPF using 4" guns, 0.5" diameter holes at 23 grams/shot.

Perforation interval will be selected from CNL log.

- 14. TIH with Baker SAP tool and breakdown perforation interval with 20 gallons/perf-ft of 7 1/2% HCL with 0.3% quaternary amine clay stabilizer. Record breakdown pressures and volume of fluid for each set of perforations. TOOH.
- 15. TIH with 3 1/2" 9.3# workstring with 7" Baker Retrievamatic Packer. Set packer at 2250'. Pressure test packer and 3 1/2" tubing to 3000 PSI.
- 16. Prepare to fracture stimulate down 3 1/2" work string. Pressure up 7" casing to 1000 PSI and monitor during fracture stimulation.
- 17. Flow well back immediately following fracture stimulation through variable choke at approximately 10 GPM. Monitor wellhead pressures for 20 minutes during flowback. Shut well in for 6 hours to allow gel to break.
- 18. Flow well back through variable choke and monitor flow. Check for broken gel during flowback.
- 19. Release packer and TOOH with packer and 3 1/2" workstring.
- 20. TIH with 2 3/8" tubing and clean out to COTD @ 2570'.
- 21. TIH with 2 3/8" tubing and SN one joint off bottom. Gauge well on 30 minute and 60 minute intervals. Land tubing 15' above bottom perforation. ND BOP and NU wellhead. Return well to production.

WORKOVER / RECOMPLETION B.O.P. SCHEMATIC



MINIMUM: 6" 2000 PSI DOUBLE GATE B.O.P.

MAXIMUM ANTICIPATED SHUT-IN WELLHEAD

PRESSURE IS LESS THAN 2000 PSI