Form 3160-5 (June 1990)

の一般では、1982年に

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED BLM FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

	TOP THE INTERIOR DELT	Expires: March 31, 1993		
BUREAU OF	LAND MANAGEMENT 91 JUN 17 PM V: 17	5. Lease Designation and Serial No.		
SUNDRY NOTICES	AND REPORTS ON WELLS	NM 021121		
Do not use this form for proposals to dr	Ill or to deepen or rearity to a different reservoir.	6. If Indian, Allottee or Tribe Name		
Use "APPLICATION FO	R PERMIT—" for such proposals			
		7. If Unit or CA, Agreement Designation		
SUBMIT	IN TRIPLICATE			
I. Type of Well				
Well Well Other		8. Weil Name and No.		
2. Name of Operator	f	Moncrief Federal #1		
Union Oil Company of Californ: 3. Address and Telephone No.	La			
•	rmington, NM 87401 (505) 326-7600	10. Field and Pool, or Exploratory Area		
4. Location of Well (Footage, Sec., T., R., M., or Survey D		Basin Dakota		
14501 PW 6 11001 PP		11. County or Parish, State		
1450' FNL & 1190' FEL		Gara Lagar Ga Nory Morri		
Sec. 22, T29N, R12W		San Juan Co., New Mexi		
12. CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOTICE, REPO	ORI OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	i		
Notice of Intent	Abandonment	Change of Plans		
_	Recompletion	New Construction		
X Subsequent Report	Plugging Back	Non-Routine Fracturing		
<u> </u>	Casing Repair	Water Shut-Off		
Final Abandonment Notice	Altering Casing	Conversion to Injection		
	Other	Dispose Water (Note: Report results of multiple completion on Well		
		Completion or Recompletion Report and Log form.)		
 Describe Proposed or Completed Operations (Clearly state a give subsurface locations and measured and true verti 	all pertinent details, and give pertinent dates, including estimated date of startical depths for all markers and zones pertinent to this work.)*	ing any proposed work. If well is directionally drules.		
	eloped a tubing leak and died. On Ja	nuary 4, 1991, a rig was		
moved onto the well to return	it to production. It was found that	Kenpak, an oil/water		
emulsion that was used to repa	ir a casing leak in 1969 was plugging	the tubing. The tubing		
was pulled, the Kenpak was cher	mically cleaned out of the well annul	us, the casing leak betwee		
2781' to 3772' was squeezed wi	th 495 sx. class 'B' cement and the s	queeze was pressure teste		
to 100 psi with no pressure lo	ss after 10 minutes. Following succe	ssful repair of the casing		
additional pay was perforated	at 6212'-31', 6236'-45', and 6142'-50	'. The well was fracid w		
34,300 lbs 20/40/ sand in 12,7	00 gallons 30# crosslinked gel. The	WELL Was even by the		
in and returned to production.		DECE		
A detailed workover report is	JUL 01 1991.			
A detailed workover report is		JULOI W		
		OIL CON. DIV		
		FOIST, 3		
		OIF COM. DIA		
) D		
14 I hereby certify that the foragoing is the and sorrect				
Signed Cana Q. Dan He	TideField_Superintendent	par 6/12/91		
(This space for Federal or State office use)				
Approved by	Title	Date 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Conditions of approval, if any:		Second on the second section of		
		FARMINGIUM MASOUNDE MAEN		

RECEIVED BLM

91 JUN 17 PM 1: 17 1019 FARMINGTON, N.M.

Union Oil of California Moncrief Federal #1 Section 22, T29N, R12W San Juan County, New Mexico

WORKOVER_HISTORY

01-04-91 Move in and rig up Flint Rig. Nipple up BOP. Rig up Homco wireline and ran free point. Obstruction in tubing at 6009'. Tubing found to be free to 5825' and partially stuck to 5832' and 100% stuck below. POOH. RIH with chemical cutter and made cut at 5820'. POOH and rig down wireline. POOH. Shut down over night.

01-05-91 Rig up Mote hot oil unit and circulated hole with 120 bbls 2% KCl and 16 gallons Tretolite CF-23 @ 180 degrees and 200 psi. P00H with 185 1/2 jts tubing measuring 5810.58'. 107th jt at 3330' had hole. Suspect casing leak 111th-112th jts at 3460'. Ken Pak is heavy on tubing. Shut down over night.
01-06-91 Sunday--Crew Off

01-07-91 RIH with 90 jts 2 3/8" N-80 workstring and tag at 3337'. At 3980' circulated well. POOH. RIH with 3 7/8" bit, and 191 jts tubing to 5810'. Circulated well and pump TF-25 Tretolite with 5 gal TF-25 per 15 bbls 2% KCl water for total of 160 bbls. POOH with 92 jts tubing. Shut down over night.

O1-08-91 POOH with 90 jts tubing and 3 7/8" bit. RIH with Homco flat bottomed mill to 5810' and circulate 30 minutes. POOH. RIH with Baker Lockset bridge plug and set at 5777' on tubing. POOH, 1 jt, set packer and test to 1000 psi. Held good. Release packer and POOH 18 jts and set packer @ 5187', test to 700 psi, OK. POOH with 22 jts and set packer and test to 700 psi, OK. POOH with 18 jts, set packer at 3943', test to 700 psi, OK. POOH with 14 jts and set packer at 3517' and had leak. RIH with 2 jts, set packer, at 3572', test, had leak. RIH with 12 jts tubing and set packer at 3942', test 700 psi, OK. POOH with 2 jts tubing, set packer at 3756', test, had leak. RIH with 1 jt tubing and set packer at 3787', test 800 psi, OK. POOH 15', set packer at 3772', test, OK at 800 psi. Bottom of leak @ 3773'. POOH 16 jts, set packer at 3269', test backside and pumped in at 1 bpm at 300 psi. Shut down over night.

01-09-91 Found top of leak at 2781'. Bottom of leak at 3772'. 991' of bad casing. Pump in at 3 bpm at 800 psi. Release packer and RIH 118 jts tubing and get 2' off 8P at 5775'. Circulate hole for casing inspection log. POOH with 189 jts tubing and packer. Shut down over night.

- <u>01-10-91</u> No operation
- 01-11-91 RIH with Apollo Bond Log to 268', stuck, POOH.
 RIH with 60 jts 2 3/8" tubing, circulate hole 45
 minutes, hole took 40 bbls thru leaks. POOH. Ran Bond Log from 5772' to 2500'. Ran casing inspection log from 5772' to surface. Shut down over night.
- <u>01-12-91</u> No operation
- 01-13-91 No operation
- <u>01-14-91</u> RIH with reverse sub and 184 jts tubing to 5774', circulate hole 1 1/2 hrs and POOH. RIH with 102 jts tubing to 3250' openended. Shut down over night.
- O1-15-91 Finish TIH to 5768'. Displace hole with 80 bf and spot 2 sx sand on BP at 5777'. Pick up 60' and shut down for 30 minutes. RIH and tag sand at 5745'. POOH. RIH with Baker cement retainer and set at 2710'. Test casing to 700 psi. Test tubing to 2500 psi. Stung into retainer and established rate of 2 bpm at 1000 psi. Held 260 psi on shutdown. Mix and pump 175 sx Class "B" cement with 1% CF18 and .05% TF4 at 15.5 ppg. Pump into interval 2781-3772' at 2 bpm at 200 psi with calc. vol. to bottom of hole at 3772' (27 bbls). Work with tubing cement volume (10 bbls) for 2 hrs from 30 seconds per bbl. Pumped last 2 bbls at 1/4 bpm at 150 psi. Holding 100 psi @ shutdown. BHP top hole 1340 psi. Bottom hole 2144 psi. Sting out of retainer and reverse out 5 sx cement. POOH with stinger. Shut in overnight. Cost to date \$43360.
- 01-16-91 RIH with 3 7/8" bit and 6 3 1/8" DC and 84 jts tubing and tag cement retainer. Circulate hole. Test casing to 500 psi, OK. Drill on retainer for 2 hrs 45 minutes. FOOH to check bit. Cost to date \$46315.

是是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,我们就是一个时间,也

- O1-18-91 RIH and drill to 2887', test to 900 psi, OK.

 Drill to 2946', test to 900 psi, OK. Drill to 3009',

 test 900 psi, OK. Drill to 3071', test 900 psi, OK. Drill to

 3129', test 900 psi, OK. Drill to 3191', test 900 psi, OK.

 Drill to 3250', test 900 psi, OK. Drill to 3280', circulate hole

 clean, reverse, and pull 5 stands and shut-in for night.
- O1-19-91 Drill to 3311', pressure test to 900 psi, bled to 500 psi in 30 seconds and held at 500 psi. Drilled to 3367' and fell out of cement. With bit at 3371', circulated hole

- clean. Closed pipe rams and pumped in at 2 bpm at 800 psi. Ran in hole to 3800', all clean. POOH. Shut-in for weekend.
- 01-20-91 Sunday--Crew Off
- 01-21-91 RIH with Baker fullbore packer (7.00') and 90 jts 2 3/8" tubing (2735.31'), and set packer at 2745' KB. Pressure backside to 1000 psi and trap. Establish rate of 1 bpm at 800 psi and 2 bpm at 1100 psi. Pumped total of 10 bbls. Mix 175 sx Class "B" with 0.6% fluid loss additive at 2 bpm at 1500 psi. After shut down, held 800 psi. Displaced with water at 2.2 bpm to 1/2 bpm at 1200 psi. Hesitated cement over 2 1/4 hrs, with maximum squeeze pressure of 1200 psi. Released packer and POOH.
- O1-22-91 RIH with 3 7/8" bladed bit and BHA as before and 93 jts tubing and tagged cement at 3007' KB. Drilled 60' soft cement. Drilled to 3097', tested to 900 psi, OK. Drilled and tested casing to 3340', all OK. Drilled to 3401', tested to 900 psi, had slight leak. Drilled out to 3557', testing to 1000 psi. Pressure bled to 750 psi in 1 minute. Pulled up and shut-in for night.
- O1-23-91 Thaw wellhead and lines. Continue drilling and testing to 1000 psi and each time would bleed to 750 psi in 1 minute. Fell free at 3773'. Tested and pumped into leak at 1 bpm at 1100 psi. On shutdown, would bleed off 200 psi in 1 minute. POOH. RIH with Baker fullbore packer and 90 jts tubing and set packer at 2745' KB. Loaded casing with 1000 psi and trapped. Established injection rate of 1.5 bpm at 1400 psi. Mixed 150 sacks Class "B" cement with 0.4% fluid loss additive and 2% calcium chloride at 1.8 bpm at 1500 psi to 1200 psi. Displaced at 1 1/2 bpm at 1100 psi to 1500 psi and at 1 bpm at 1300 psi to 1400 psi. Shut down and held 1200 psi. Hesitate cement 1/2 hr, pumped 1 1/2 bbls 1000 psi to 1300 psi. Hesitate cement 20 minutes and pumped in 1/4 bbl, 1000 psi to 1200 psi. Eled back pressure and had flow back. Pressure squeeze to 800 psi and shut-in for night.
- O1-24-91 POOH with packer. RIH with new 3 7/8" bladed bit & Drill Collars as before and 87 jts tubing and tag at 2824' MB. Drill good cement to 3039' MB. Circulate hole clean and Shut-in over night.
- 01-25-91 Drill good cement from 3039' to 3433'. Test casing at 3370' and 3401' and leaked 100 psi/minute.
- O1-26-91 Drill good cement from 3401' to 3620' and fell free. Test casing to 500 psi, bled to 100 psi in 10 minutes and held 100 psi for 5 minutes. Bled pressure. Continue in hole and with 183 jts tubing and BHA tagged sand fill at 5740' KB. Pull 5 stands tubing and shut-in over night.

- 01-27-91 Sunday--Crew Off
- O1-28-91 Thaw out rig and piping. TIH with:183 jts tubing and BHA and reverse out 20' of sand off RBP at 5777'. Circulate hole clean and POOH. RIH with Baker retrieving head and 189 jts tubing and circulate onto RBP at 5777'. Latch onto plug and POOH. Recovered plug. Shut-in overnight.
- O1-30-91 TIH with BHA and 185 jts tubing and latch onto fish at 5820' KB. Set jars off twice at 40k and pull free. POOH. Recovered 5' cut off piece of tubing and 8 jts tubing of which 6 were plugged, and seal assembly for packer. RIH with packer plucker (14.30'), Bowen jars (8.48'), 6 drill collars (177.09'), x-over (0.98'), for total BHA length of 200.85' and 193 jts tubing and latch into Model "P" packer at 6088' KB. Clean out drill tank and fill with 2% KCl water. Pump 75 bbls into well and no returns. Out of water. Shut-in overnight.
- O1-31-91 Thaw rig and lines. Mill on packer at 6088' while circulating the long way. Full returns. Cut on packer 4 hrs and twisted off. POOH with 19 jts tubing, had had collar failure, pin end looked good. RIH with overshot and 19 jts tubing and latched onto fish. Worked packer plucker and packer came up hole 20'. Pulled to 70k and slacked off, working packer plucker. Established circulation and worked plucker, no success. Attempt to release packer plucker and failed. Jar to 65k for 5 minutes and came free. Dragging 5k over string weight for 5 stands and freed up. Pulled 36 stands. Recovered overshot and tubing collar was split on one side. Shut-in for night.
- 02-01-91 Finish POOH and recovered an estimated 3/4 of Model "P" packer. RIH with 3 3/4" mill and 6 drill collars and 193 jts tubing and tagged at 6072' KB. Established circulation conventionally and milled 6" and fell free. RIH and tagged again at 6191' KB. Milled to 6281' KB and was at PBTD. Recovered scale, rubber, frac balls, sand, and steel cuttings. Circulated hole clean and pulled 5 stands and shut-in for weekend.
- 02-02-91 Saturday--Crew Off
- 02-03-91 Sunday--Crew Off

02-04-91 POOH laying down rental 2 3/8" tubing and drill collars. Loaded out washpipe. RIH with Baker Fullbore packer (6.90') and 127 jts tubing (3973.70') and set packer at 3985' KB. Tested squeeze holes to 100 psi, after 10 minutes, no bleed off. Released packer and POOH. RIH with sawtooth collar (0.40'), 1 jt 2 3/8" tubing (31.01'), standard seating nipple (1.08'), and 127 jts 2 3/8" tubing and shut down for night.

02-05-91 Finish running production tubing and landed as follows:

2 3/8" sawtooth collar	.40'
1 jt 2 3/8" 4.7# EUE tubing	31.01'
Standard seating nipple (1.78" ID)	1.08'
196 jts 2 3/8" 4.7# EUE tubing	<u>6178.70</u> '
197 jts total	6211.19'
Landed below KB	10.00'
Tuhing Landed at	6221.191

Seating nipple is at 6189' KB. Rig up and swab well.

WORKOVER HISTORY

03-19-91 Move in and rig up Flint Rig. Nipple down tree and nipple up BOP. POOH with 2 3/8" production tubing strapping pipe. Pulled total of 197 jts, seating nipple, and sawtooth collar all measuring 6201.86'. RIH with 3 7/8" Homco tapered mill and bit sub (4.83'), and 199 jts 2 3/8" tubing (6263.98'), and tag fill at 6269' KB. Started pulling tubing and had to shut down due to high winds after pulling 25 stands.

03-20-91 Finish POOH with tapered mill. Rig up Blue Jet and ran gamma-ray correlation log form 6269' to 5250'. Perforated with 2 JSPF 6212-31', 6236-45', and 6142-50'. No reaction after perforating. RIH with Baker Retrievamatic packer (6.40'), x-over (0.83'), and picked up 182 jts 2 7/8" 7.9# nulock tubing and set packer at 5828' KB. Loaded backside with water and clayfix and spotted 300 gallons 10% acetic acid. Closed bypass and established rate of 20 bpm at 4150 psi. BDP 4400 psi. Fracked with 34,300 lbs 20/40 sand in 12,700 gallons 30# crosslinked gel. Ramped sand to 6.5 ppg. Screened off leaving 26,600 lbs sand in formation and 7,700 lbs in pipe. AIR 21 bpm at an average treating pressure of 3700 psi. Screened off to 6500 psi. Sand concentration at perforations at screen off was 5.89 ppg. Total load water to recover 369 bbls. Left well shutin overnight.

03-21-91 SICP zero. Open tubing--no flow. Pump in 1 bbl water down casing and pressure to 500 psi, and maintain same. Released packer and POOH with 4800' 2 7/8" tubing. Gel was not

Moncrief Federal #1--Workover

broken and sand laden. Reversed out remaining gel and laid down 2 7/8" tubing on float. RIH with sawtooth collar (0.40'), 1 jt 2 3/8" tubing (31.76'), standard seating nipple (1.08'), and 184 jts 2 3/8" tubing (5792.75') and tag sand fill at 5820' KB. Rig up to reverse circulate. Cleaned out sand to 5972' KB, pulled 1 stand and shut-in overnight.

O3-22-91 SITP & CP zero psì. Reverse out sand from 5952' to 6274' KB. Circulate hole clean. Pull 4 jts tubing to place EOT at 6200' KB. Rig up to swab. IFL at surface. Made 17 runs in 5 hrs. ending at 3:30 p.m. and recovered 87 BLW. FFL 4800'. Slight blow with swab up. 282 BLW yet to be recovered. Bled casing and lowered tubing and tagged sand at 6216' KB for 58' of fill. Place EOT at 6144' KB and resumed swabbing. Made 7 runs in 2 hrs ending at 6:00 p.m. and recovered 18 BLW with FFL at 5000'. Final CP zero psi. Slight sand in swab cups. 264 BLW yet to be recovered. Shut-in for night.

O3-23-91 SITP zero, SICP 20 psi. Ran swab. IFL 4700'. In 5 hrs ending at noon, made 18 runs and recovered 35 BLW, with FL at 5500'. CP 80 psi. Still on vacuum with swab up. No oil. In 3 hrs ending at 3:00 p.m. made 10 runs and recovered 10 BLW, CP 110 psi, FL 5900', last 2 runs had slight blow with swab up. No oil. Wait 1 hr, made run from seating nipple and recovered 1 BLW, FL 5500'. CP 140 psi. Wait 1 hr, made run from seating nipple, recovered 1 BLW, FL 5500', CP 145 psi. Summary for day. IFL 4700', made 30 runs and recovered 47 BLW, FFL 5500', FCP 145 psi. 217 BLW yet to be recovered. Slight blow on tubing with swab up, dies in 1 minute. Shut-in for weekend.

03-24-91 Sunday--Crew Off

O3-25-91 SITP 50 psi, SICP 320 psi. Ran swab, IFL 4800'. Made 4 runs and recovered 12 BLW and well kicked off flowing gas with a heavy mist of water. Died in 1/2 hr with CP 230 psi. In 1 1/2 hrs, ran swab twice and recovered 4 BLW, FL 5500' and CP down to 180 psi. Bled casing pressure and lowered tubing and tagged sand at 6216' KB for 58' of fill. POOH. RIH with Baker hydrostatic bailer and cleaned out sand 6216' to 6260' and bailer quit. Pulled up and waited for 1/4 hr, and tagged sand fill at 6245' KB. POOH and dumped bailer. TIH with bailer and cleaned out sand 6245' to 6274' KB. Pulled up and waited 1/4 hr, and had no fill, clean to 6274' KB. POOH. Total water pumped in to operate bailer 40 bbls. 241 BLW yet to be recovered. Shut-in for night.

Moncrief Federal #1--Workover

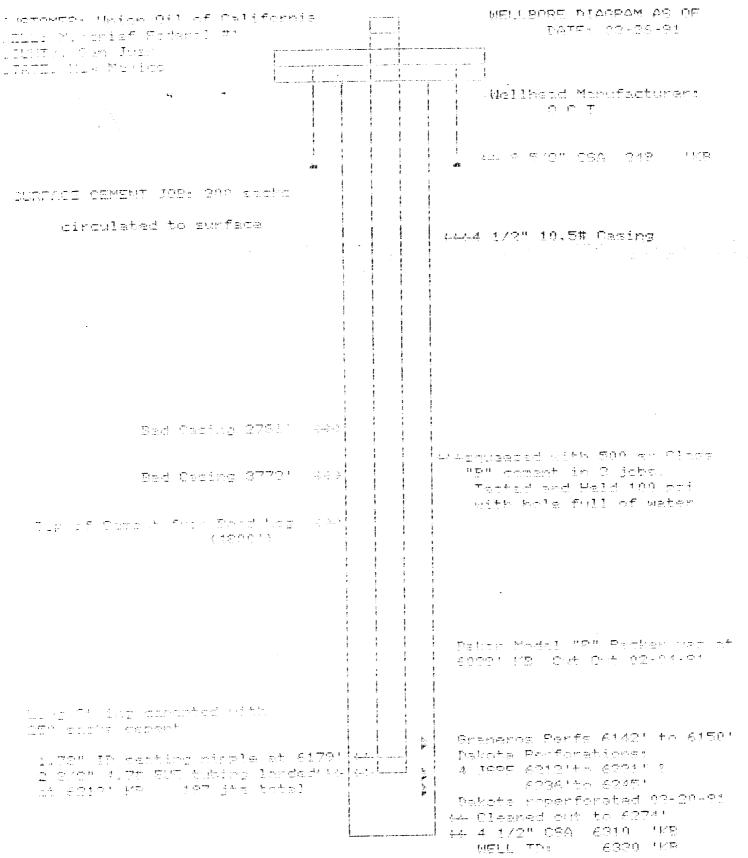
03-26-91	SICP	20 psi.	Ran fina	al product	ion	tubing as	follows:
		Sawtooth	Collar,	2 3/8"		0.40'	
: .	41 it.	. 2 3/8"	4.7# EUE	tubing ·	نیچه	31.76	
	, 50,	Standard	Seating	Nipple	•	1.08'	
•	196 its	= 2 3/8"	4.7# EUE	tubing		<u>6168.62</u> '	
•	199 jts	s Total	• •	_		6201.86'	
	121 24	5 10001	Landed	below KB		10.00'	
	\			landed at		6211.86	KB

Seating nipple at 6179' KB. Nipple down BOP and nipple up tree. Released Flint Rig. Rig up Silver Star to swab. Turned job over to Mr. Les Gimbel. Job Complete.

Harold W. Elledge Petroleum Engineer

i.		
eral #1		0.00 6201.86
MoncriefFederal #1		0.00 0.00 6201.86 6201.86 197.00
		0.00 6201.86 on Rack
2 3/8" tubing		0.00 6201.96 Total Jts.
5	63.02 63.38 63.23 63.12 62.90 62.57	504.33 6201.86 T
alifornia	62.98 63.11 63.31 63.33 62.92 62.33 62.34 62.34 62.34 62.34 62.34 62.34 62.35 62.35 63.46 62.35 63.46 62.35 63.46 63.40 62.53 63.46 63.53 63.53	62.32 1865.69 5697.53
Union Oil Company of California	63.60 63.35 63.35 63.37 63.33 63.34 63.35 63.35 63.35 63.45 63.35 63.45 63.50 63.50 63.50 63.50 63.50	63.37 1891.98 3811.84
ion Oil Co	62.45 62.48 62.91 62.02 62.97 63.33 63.16 63.06 63.08 63.08 63.08 63.08 63.08 63.08 63.08 63.08 63.08 63.08 63.08 63.08 63.08 63.08 63.08 63.08 63.08	63.40 1886.62 1919.86
5		1.08
-26-91	31.76	31.76 32.16 eet/jt
-03-	0.40 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.40 31.47 fe
Pipe Tally	1 2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	30 63.40 63.57 62.32 Sub Total 0.40 31.76 1.08 1885.62 1891.98 1885.69 504.33 0.00 0.00 Cum 32.16 33.24 1919.86 3811.84 5697.53 6201.86 6201.86 6201.86 Avg Length 31.47 feet/jt

Landed 197 jts 2 3/8" 4.7# EUE tubing at 5212' KB 1.78" ID Seating Nipple is at 6179' KB No tubing left on location #. #4.



PREPARED TY: Harold W Elledge, P.S.