State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division

Sundry Notices and Reports	on Wells
1. Type of Well	API # (assigned by OCD) 30-045-10676 5. Lease Number
GAS	6. State Oil&Gas Lease Fee
2. Name of Operator MERIDIAN OLL	7. Lease Name/Unit Name Harper
3. Address & Phone No. of Operator	8. Well No. #2
PO Box 4289, Farmington, NM 87499 (505) 326-970	9. Pool Name or Wildcat Basin Dakota
4. Location of Well, Footage, Sec., T, R, M 790'FSL, 790'FEL, Sec.14, T-31-N, R-12-W, NMPM, S	10. Elevation: San Juan County
Type of Submission Type of	Action
X Notice of Intent Abandonment Recompletion	Change of Plans New Construction
Subsequent Report Plugging Back Casing Repair	Non-Routine Fracturing Water Shut off
Final Abandonment Altering Casing _X_ Other - Repair b	Conversion to Injectio
It is intended to repair the bradenhead on this well per the attached procedu	re.
	DECEIVED
	OIL CON. DIV.
SIGNATURE Statifical Regulatory Af	fairsJuly 19, 1994
(This space for State Use) Approved by Original Signed by FRANK T. CHAVEZ Title SUP!	RVISOR DISTRICT #3 DELL 2 0 1994

Harper #2 790' FSL, 790' FEL Sec. 14, T31N, R12W San Juan County, New Mexico Shut off Bradenhead Flow **Workover Procedure**

!! NOTIFY NMOCD AND BLM 24 HOURS PRIOR TO WORKING ON THIS WELL !!

COMPLY WITH ALL BLM, NMOCD, AND MOI RULES AND REGULATIONS

- 1. Install 1-400 bbl frac tank and fill with water. Add 5#'s of biocide to tank during the filling. Test rig anchors and repair if necessary.
- 2. Place fire and safety equipment in strategic locations and hold safety meeting with all contractors involved.
- 3. MOL and RU workover rig. NU BOP's, Blooie line and 2 7/8" relief lines.
- 4. TOOH w/ 224 (?) jts 2 3/8" tbg. Visually inspect tbg for corrosion.
- 5. RU wireline unit and run 4 1/2" gauge ring to 5000'. PU and RIH w/ 4 1/2" RBP. Set RBP @ 4500'. Pressure test casing to 750 psi.
- 6. Spot 10' of sand on top of RBP. Load hole with water and run audio and caliper log. Use audio log to determine entry and exit point (if any) of flow. Run CBL if neccessary. RIH w/ perforating gun and perforate 2 shots 10' below entry point. RIH w/ retrievable packer and set packer 185' above perforations
- 7. Determine cement volume needed from entry point. Calculate to 100% excess.
- 8. Establish rate through perfs w/ bradenhead valve open with freshwater. Observe flow out bradenhead valve. Squeeze w/ Class "B" + 5% CalSeal + 0.3% Halad 344 (Yield:1.23 cf/sk). Circulate cement to surface. Shut in bradenhead valve and squeeze. Displace cement 2 bbls below packer. Once squeezed, pull up hole, reverse circulate, and reapply squeeze pressure. TOOH w/ packer after 4 hours.
- 9. Shut in well and monitor pressure. WOC 12 hours.
- 10. TIH w/ 3 7/8" bit and drill cement. Pressure test casing to 750 psi. TOOH. PU and RIH w/ 4 1/2" casing scraper to below squeeze. TOOH.
- 11. TIH w/ retrieving head and retrieve RBP @ 4500'. TOOH w/ RBP.
- 12. PU and TIH w/ 2 3/8" tbg. Land @ app. 7106'. Load hole w/ 1% KCI water. Spot 5 bbl. 7.5% HCl on perfs. After 30 min. pull up and displace acid w/ 5 bbl 1% KCl water. CO wellbore w/ gas or air to PBTD @ 7332'.
- 13. TIH w/ 2 3/8" tbg string. Land @ app. 7106'.

14. RD rig, NU wellhead. Return well to production.

Recommended

Service Companies:

Wireline/Perforating/Logging: Blue Jet (Danny Sipe)

Cement/Pump truck: Halliburton (Hal Winters)

Bridge Plug/Packer:

(325-5584)

(325 - 3575)

PERTINENT DATA SHEET

7/12/94

WELLNAME:	Harper #2				DP NUMBE	R		27281		
WELL TYPE:	Basin Dakota				ELEVATIO	N:	GL: KB:	61 68 ' 6180'		
	790' FSL 7 Sec. 14, T31N, I San Juan Count		,		INITIAL POTEN	ITIAL:	AOF 962	5,370 2,004	MCF/D	
								·		
OWNERSHIP:	GWI: NRI:	100.0000% 87.1938%			DRILLING	:	CC	PUD DATE: DMPLETED: TAL DEPTH: PBTD:		03-29-62 04-24-62 7348'
CASING RECORD:							·	PBID		7332'
HOLE SIZE 12 1/4"	<u>SIZE</u> 8 5/8"	WEIGHT 24#	GRADE J55	<u>DEPTH</u> 323'	EQ	UP.		CEMENT 225 sx	-	TOC surface-ci
7 7/8"	4 1/2"	11,6#,9.5#	J55	7348'	DV tool @	5290	stg 1 stg 2 sqz 1	250 sx 535 sx 350 sx		6200'-TS 3715'-TS 548'-caic 75
Tubing: 225 jts	2 3/8"	4,7#	J55?	71 37 '						
FORMATION TOPS:				•••		and the second s				
	Ojo Alamo		9 90 '			lancos				
	Kirtland		1010			allup		6295'		
	Fruitland		2185'			reenhorn		6989'		
	Picture Cliffs		2697			raneros		7061'		
	Lewis					akota		7188'		
	Cliff House		4203'							
	Menefee Point Lookout		4953'			11 - W. J				
LOGGING:	Induction-ES, 1	rs				TO A MANAGEMENT OF THE STATE OF				
PERFORATIONS	7116'-24', 7188	3'-7226', 7302'	-24' w/ 4	spf						
STIMULATION:	83,286 gal wtr.	60,000 # 20/4	0 sand, 2	5,000# 1	0/20 sand					
WORKOVER HISTORY:	6/72-	Squeeze hole	in casing	@ 2352'	w/ 350 sx. cement.	Test to 150	 00# - OK	. Land 2 3/8	"tbg@27	······································
PRODUCTION HISTORY: Cumulative as of March 94:	<u>Gas</u> : 45.9 Mbbl	<u>Oil</u> 2.88 Bcf			DATE OF LAST	PRODUCT February April, 199	, 1994	<u>Gas</u> 262 Mcf	<u>Oil</u> 21 Bbl	
	0	0								
Current:	•	-								

Harper #2

Current

Basin Dakota DPNO 27281

790' FSL, 790'FEL Sec. 14, T31N, R12W, San Juan Co., NM

Spud: 03-29-62

Completed: 04-24-62

Ojo Alamo @ 990' Kirtland @ 1010'

Fruitland @ 2185'

Pictured Cliffs @ 2697'

Cliff House @ 4203'

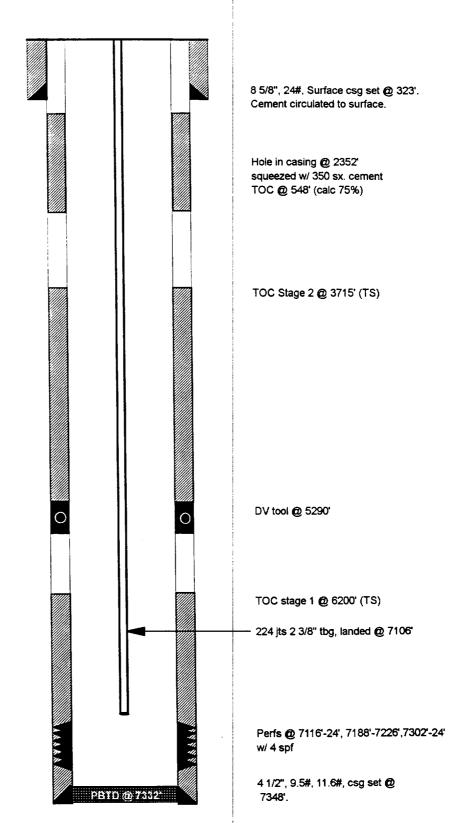
Point Lookout @ 4953'

Gallup @ 6295'

Greenhorn @ 6989'

Graneros @ 7061'

Dakota @ 7188*



TD @ 7348'

STATE OF NEW MEXICO OIL CONSERVATION DIVISION 1000 Rio Brazos Road ENERGY and MINERALS DEPARTMENT Aztec, New Mexico

BRADENHEAD TEST REPORT

(Submit 2 copies to above address)

Date of Test 8-04-93 or	perator SOUTHLAND ROYALTY CO.
	Well No 002 Unit P Sec. 14 Twp. 031N Rge. 012W
	Dwt Tubing <u>330</u> Intermediate — Casing <u>410</u> Bradenhead <u>2</u>
OPEN BRADENHEAD AND INTERMEDIA	ATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EAC
TIME: PRESSURES: INTERMEDIATE CASING	BRADENHEAD INTERMEDIATE FLOWED: FLOWED:
5 Min. 400-	Steady Flow
10 Min. 400	Surges
15 Min. 400	Down to Nothing
20 Min. <u>400</u>	Nothing
25 Min. <u>400</u> -	Gas
30 Min. <u>400</u> - ⊭	Gas & Water
	Water
If Bradenhead flowed water che	eck description below:
Clear	Remarks:
Fresh	
Salty	
Sulfur	
Black	
	By Kirls Camos
	LEASE_OPERATOR
	Witness