District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Energy Minerals and Natural Resources

Form C-101 Revised July 18, 2013

AMENDED REPORT

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Fulfer Oil & Cattle, LLC						⁻ OGRID Number 141402				
PO Box 1224 Jal, NM 88252								³ API Number 30-025-27085		
* Property Code 313627			S	Property Name outh Langlie Jal	Unit		* Well No. 31			
				7. Si	urface Location	1				
UL - Lot N	Section 7	Township 25 S	Range 37 E	Lot Idn	Feet from 660'	N/S Line South	Feet From 1980'	E/W Line West	County Lea	
				* Propos	ed Bottom Hol	e Location				
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County	
				9. Pe	ool Information	1				
Jalmat; T				Pool Name Tan-Yates-7 Rvrs (Oil)				Pool Code 33820		
				Addition	al Well Inform	ation				
^{11.} Work Type E			^{12.} Well Type O		^{13.} Cable/Rotary R		^{14.} Lease Type P		^{15.} Ground Level Elevation 3127'	
^{16.} Multiple N		1	^{17.} Proposed Depth 3500' PBTD		^{18.} Formation Seven Rivers		^{19.} Contractor TBD	^{20.} Spud Date 3/01/2016		
Depth to Ground water ~92'			Distance from nearest fresh water well ~1050'				Distance to nearest surface water			

^{21.} Proposed Casing and Cement Program

Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17.5"	13.375"	54.5/61.0#	1050'	870 'C'	Circ. to Surf.
Intermediate	12.25"	9.625"	43.5#	4520'	3550 'C'	Circ. to Surf.
Production	8.5"	7.0"	26.0/29.0#	12100'	2400 'C'	3500'

Casing/Cement Program: Additional Comments

Additional squeeze intervals behind 7.0" casing. See wellbore diagram.

^{22.} Proposed Blowout Prevention Program Working Pressure Туре **Test Pressure** Manufacturer Hydraulic or Man./Dbl. Blind Ram 3000 psi 5000 psi Shaffer/Hydril or equivalent

^{23.} I hereby certify that the information given above is true and complete to the best of my knowledge and belief.	OIL CONSERVATION DIVISION			
I further certify that I have complied with 19.15.14.9 (A) NMAC and/or 19.15.14.9 (B) NMAC , if applicable. Signature:	Approved By:			
Printed name: Ben Stone	Title: Petroleum Engineer			
Title: Agent for Fulfer Oil & Cattle, LLC	Approved Date: 02116116 Expiration Date: 02/16/18			
E-mail Address: ben@sosconsulting.us	1.0/10 0 110100			
Date: 2/16/2016 Phone: 903-488-9850	Conditions of Approval Attached			
and the second	A ALA V.2			

E-PEAM EE FEB 17 2016

Fulfer Oil & Cattle, LLC South Langlie Jal Unit Well No.31 Section 7, Twp 25-S, Rng 37-E Lea County, New Mexico

Well Re-entry Program

Objective: Re-enter the existing wellbore by drilling out plugs, clean out to new PBTD of 3500', selectively perforate desired intervals, acidize and run new tubing, pump and rods to return to production.

1. **Geologic Information** – The Tansill Formation consists of gypsum, red clay, and silt (evaporite facies) that laterally grades into dolomite near the reef margin. The Yates Formation consists of siltstone and sandstone beds totaling approximately 300 to 400 feet in thickness near the reef margin. The Seven Rivers Formation is a thin-bedded dolomite sandwiched between the upper Queen sandstone and the Yates sand. This formation laterally grades from evaporite to a carbonate facies as it grades into the Capitan Reef Complex. The bedding disappears as it grades into the Capitan Limestone. This formation is up to 500 feet thick (Hill, 1996; Hiss, 1975).

The Tansill is overlain by the Salado and the Seven Rivers is underlain by the Queen, Paddock and Bone Spring.

Fresh water in the area is generally available from the Capitan Aquifer. Based on State Engineer's records for the township, groundwater is at an average depth of 92 feet, with a minimum depth of 23 feet and a maximum depth of 275 feet.

T/ Salt	1080'
B/ Salt	2650'
Yates	2850'
Seven Rivers	3040'
Queen	3460'
Bone Spring	5570'
Wolfcamp	8098'

Formation Tops

2. Completion Procedure

a) MIRU WSU, reverse unit and associated equipment. Install B.O.P. RIH with bit and collars to drill out plugs.

b) D/O & C/O plugs to 3500'.

c) Selectively perforate intervals from logs between 3288' and 3390'.

d) Acidize w/ ~1000 gals 15% HCl. Swab and/or circulate hole clean.

e) Install pumping unit.

- f) RIH w/ tubing, pump and rods, hang horses head.
- g) Return to production and report on C-115.

3. **Tubular program** - The well casing is set as shown in the table below, under "Cementing Program". (See attached Proposed Well Schematic) 2-3/8" tubing will be run and set with tubing anchor set at approximately 3900'. Install new pump and rods.

Well Re-entry Program (cont.)

4. **Cementing Program** - Existing Surface and Intermediate casing strings were all circulated to surface during the <u>original well drilling and completion</u> operations as follows:

STRING	CSG. SIZE	WEIGHT/FT.	HOLE SIZE	DEPTH	CEMENT VOL	TOP OF CEMENT
Surface	13.375"	54.6/61.0#	17.5" hole	1050'	870 sx 'C'	100 sx Circ to Surf
Intermediate	9.625"	43.5#	12.25" hole	4520'	3550 sx 'C'	300 sx Circ to Surf
Production	7.0"	26.0/29.0#	8.5" hole	12100'	2400 sx 'H'	TOC @ 3500'*

5. **Pressure Control** - BOP diagram is attached to this application. All BOP and related equipment shall comply with well control requirements as described NMOCD rules and regulations. Minimum working pressure of the BOP and related equipment required for the drillout shall be 3000 psi. OCD will be notified a minimum of 4 hours prior to BOP pressure tests. The test shall be performed by an independent service company utilizing a test plug (no cup or J-packer). The results of the test shall be recorded on a calibrated test chart submitted to the OCD Hobbs district office. The BOP test(s) will be conducted at:

a) Installation;

b) after equipment or configuration changes;

- c) at 30 days from any previous test, and;
- d) anytime operations warrant, such as well conditions

6. **Mud Circulation System** - the plugs will be drilled with 8.4 lb/gal fresh water looped through the reverse unit with all cutting recovered for disposal. Visual inspection will be made by personnel while reverse unit is in operation so cement plug cuttings and potential losses are witnessed and acted upon.

7. Auxiliary Well Control and Monitoring - Not Applicable

8. H_2S Safety - There is a low risk of H2S in this area. The operator will comply with the provisions of company H_2S contingency plan as applicable. All personnel will wear monitoring devices and a wind direction sock will be placed on location.

9. Logging, Coring and Testing – Fulfer Oil & Cattle, LLC is not anticipating running additional logs. No corings or drill tests will be conducted.

10. **Potential Hazards** - No abnormal pressures or temperatures are expected. No loss of circulation is expected to occur. All personnel will be familiar with the safe operation of the equipment being used to drillout and reenter this well. The maximum anticipated bottomhole pressure is 1500 psi and the maximum anticipated bottomhole temperature is 94° F.

11. **Waste Management** - All drill cuttings and other wastes associated with the re-entry and drill out operations will be transported to a commercial surface waste disposal facility permitted by the Environmental Bureau of the New Mexico Oil Conservation Division.

12. **Sundry Reporting** – Potential spills will be reported immediately on form C-141and OCD will be notified within 24 hours of detection. Recoverable releases will cleaned up and remediated if necessary. Other items for action or work to the well will be reported as required on form C-103 Sundry Notice.

13. Anticipated Start Date – Ready to schedule – MIRU 3/15/2015. Completion of the well operations will take one to two weeks. Production volumes will be reported on from C-115.



WELL SCHEMATIC - PROPOSED South Langlie Jal Unit Well No.31

API 30-025-27085 660' FSL & 1980' FWL, SEC. 7-T25S-R37E LEA COUNTY, NEW MEXICO

DTD @ 13300'

[33820] JALMAT; TAN-YATES-7 RVRS (OIL)

Spud Date: 8/05/1981 Reentry Dt: ~3/15/2015

Surface Casing

13.375", 54.5/61.0# Csg. (17.5" Hole) @ 1050' 870 sx - 100 sx Circulated to Surface

Intermediate Casing

9.625", 43.5# Csg. (12.25" Hole) @ 4520' 3550 sx - 300 sx Circulated to Surface

2.375" TBG & Pump 3300'

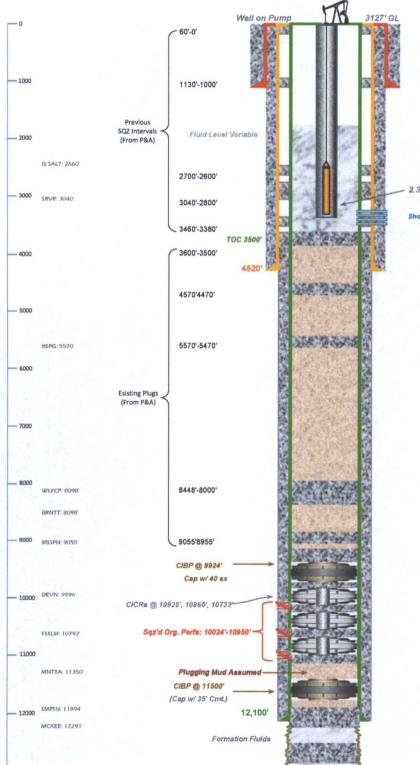
Shoot Perfs: 3288'-3390'



Return to Production: RUPU; D/O & C/O plugs to 3500'. Selectively Perf Intervals from Logs 3288' to 3390'. Acidize w/ 15% HCI; Swab Clean. Install Pumpjack; Run Tubing, Pump and Rods. Place Well on Pump - Production Reported on C-115.

> Production Casing 7.0", 26.0/29.0# Csg. (8.5" Hole) @ 12,100' 2400 sx - TOC @ 3500' by Temp

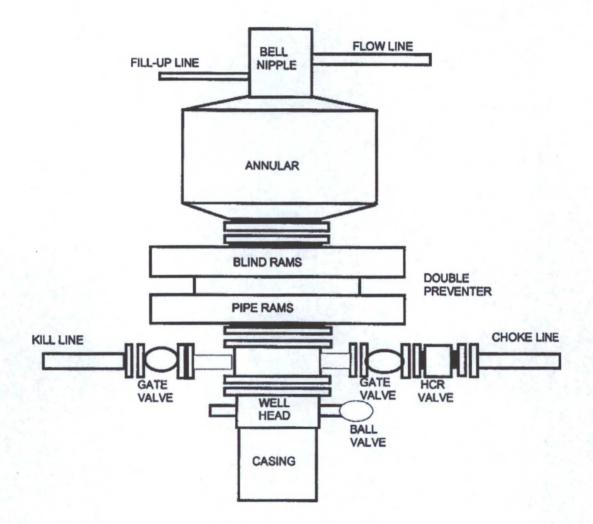




- 13000

Blow Out Preventer Diagram

3000 PSI WORKING PRESSURE



Standard Operating Procedure - Re-entry Closed-Loop Reverse Unit Diagram

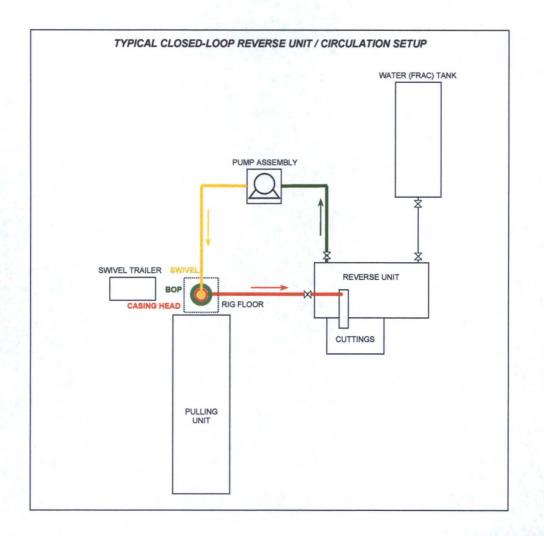
1. Blow Out Preventer tested prior to any operations. Notify BLM at least 4 hours prior.

2. Visual maintained on returns. Proceed with drillout operations accordingly.

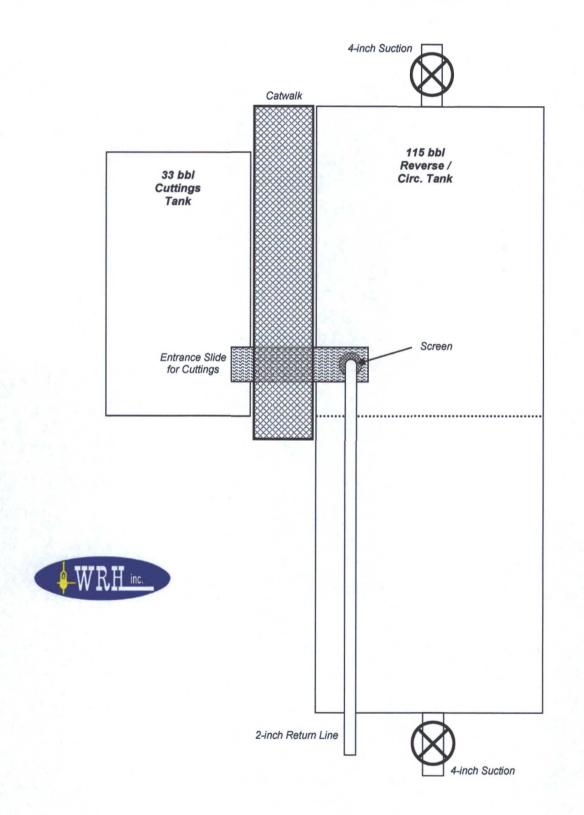
3. Cuttings / waste hauled to specified facility.

4. Spills contained & cleaned up immediately. Repair or otherwise correct the situation within 48 hours before resuming operations. Notify OCD and BLM within 24 hours. Remediation started ASAP if required. Operator shall comply with 19.15.29 NMAC and 19.15.30 NMAC, as appropriate.

5. Subsequent sundry / forms filed as needed - well returned to service.







Reverse / Circulation Tank for Workovers & Drillouts

Standard Operating Procedure & Site Setup - Re-entry

ALL OPERATIONS CONDUCTED WITHIN EXISTING PAD SITE NOT EXCEEDING SURVEYED SITE. ORIENTATION PER BEST FIT.

1. Set up H2S wind direction indicators; brief all personnel on Emergency Evacuation Routes.

2. All contractors conduct safety meeting prior to current task at Briefing Area.

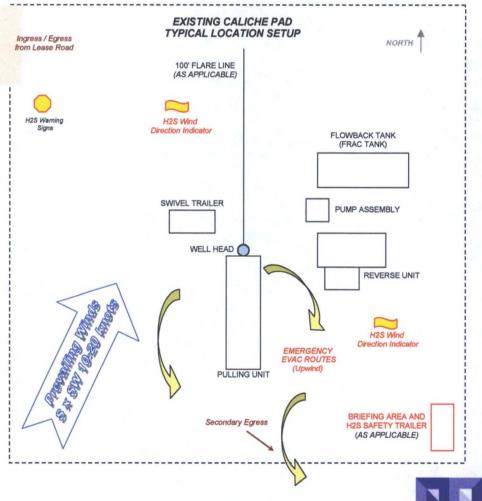
3. If H2S levels >10ppm detected, implement H2S Plan *accordingly*. (E.g., cease operations, shut in well, employ H2S safety trailer & personnel safety devices, install flare line, etc. - Refer to Plan.)

4. All equipment inspected daily. Repair / replace as required.

5. Visual on returns (losses); cuttings & waste hauled to specified facility.

6. Spills contained & cleaned up immediately. Repair or otherwise correct the situation within 48 hours before resuming operations. Notify OCD and BLM within 24 hours. Remediation started ASAP if required. Operator shall comply with 19.15.29 NMAC and 19.15.30 NMAC, as appropriate.

7. Subsequent sundry / forms filed as needed - well returned to service.



SOS Consulting, LLC

