

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOC
NM OIL & GAS CONSERVATION
ARTESIA DISTRICT
AUG 29 2017

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

RECEIVED

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	8. Well Name and No. LAKE SHORE SC 10 FEDERAL COM 4
2. Name of Operator FASKEN OIL AND RANCH LTD. Contact: ADDISON LONG E-Mail: addisonl@forl.com	9. API Well No. 30-015-31569
3a. Address 6101 HOLIDAY HILL ROAD MIDLAND, TX 79707	3b. Phone No. (include area code) Ph: 432-687-1777
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 10 T21S R26E NWNW 1310FNL 1160FWL	10. Field and Pool or Exploratory Area AVALON-DELAWARE Upper Penn. 7/1000 11. County or Parish, State Avalon W.P.M.P. 7/1120 EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Fasken Oil and Ranch, Ltd. proposes to recomplete the Lake shore SC 10 Fed. Com. No. 4 from the Strawn to the Upper Penn. We first plan to repair the suspected casing leak, and then will test the Upper Penn. If the Penn is unproductive, we will then test the Wolfcamp. We previously submitted a SN to recomplete to the Wolfcamp which was approved by you guys. We now just want to add in testing the Penn, and if it is commercial will produce out of the Penn. Please see attached procedure that includes the Penn, and if non-commercial the Wolfcamp procedure, and the current/proposed wellbore diagrams.

Note: Fasken is waiting on a com agreement to be approved, prior to doing this work.

AC 8-29-17
Accepted for record - NMOCD

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct. Electronic Submission #375740 verified by the BLM Well Information System For FASKEN OIL AND RANCH LTD., sent to the Carlsbad Committed to AFMSS for processing by DEBORAH MCKINNEY on 05/11/2017 ()	
Name (Printed/Typed) ADDISON LONG	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 05/10/2017

APPROVED
AUG 3 2017
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office _____		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RNF 10-6-17

Recommended Procedure
Lake Shore SC 10 Federal Com No. 4
AFE No. 3266
API No. 30-015-31569

OBJECTIVE:	Repair suspected casing leak, Test Upper Penn (Cisco) and Wolfcamp	
WELL DATA:	13-3/8" 54.5# J55 casing:	Set at 625', w/200sx "H"+250sx 35/65POZ, 1" w/450 sx 15 stgs. TOC to surface.
	9-5/8" 40# J55 casing:	Set at 2160', w/200sx "H"+375sx 50/50 POZ+200sx "C". Circ to surf.
	4-1/2"11.6# L80&S95 casing:	Set at 11,117'. DV @ 7664'. 1st stg 925sx Super "H", did not circ cmt thru DV. 2nd stg: 300sx BJ Lite+1300sx Super "C". <u>TOC 5492' by CBL.</u>
	Perfs:	Strawn: 6/15/01 9707-13, 9663-67' 3jspf, total 36h, 0.34" Strawn: 5/24/01 9772-88', 102h, 0.43" 4-/12" TS RBP @ 10,513' w/2sx sand, 5/23/01 Morrow: 5/3/01 10,656'-63', 10,679-84', 10,708-16', total 92h, 0.38" CIBP @ 10,860' 5/2/01 w/2sx cmt. Morrow: 4/28/01 10,890-96', 24h, 0.32" CIBP @ 10,904' 4/27/01 Morrow: 4/20/01 10,906'-24' (wet)
	Tubing:	Last tbg job 7/31/2001. 2-3/8" notched collar (0.30'), 1 jt 2-3/8" EUE 8rd L80 tbg (32.5' est), 2-3/8"x1.81" ID "F" nipple (1.5' est), 299 jts 2-3/8" EUE 8rd L80 tbg (9709.70' est), KB 15'. EOT 9759' KB.
	TD:	11,117'
	PBTD:	10,492' (RBP@ 10,513' w/2sx sd 5-23-01), (FC@11,078')
	KB:	15.0'
	Status:	Shut-in suspected casing leak above TOC 5492' probably from Delaware open under the 9-5/8" at 2160' to the top of the Bone Spring at 4260'. Or beneath the DV at 7665'; did not circulate 1 st stg cmt thru DV.

1. Obtain BLM sundry approval and pit permits. Test mast anchors. Set rig mats, pipe racks and catwalk. Set test tank and lay flowline.
2. RUPU. Open well to test tank and bleed down pressure.
3. NDWH, NU 5000 psi BOP.
4. POW visually inspecting 299 jts 2-3/8" EUE 8rd L-80 tbg (9709.70' est), 2-3/8"x1.81" ID "F" nipple (1.5' est), 1 jt 2-3/8" EUE 8rd L80 tbg (32.5' est) w/2-3/8" notched collar (0.30').
5. Receive +/-800' (about 26 jts) 2-3/8" EUE 8rd N-80 workstring tubing, and any replacement L-80 production tubing.
6. RIW with 3-7/8" cone bit, bit sub, 1-3-1/8" DC, 4-1/2" casing scraper, 5-3-1/8" DC's, top sub, SN, 2-3/8" EUE 8rd L-80 tubing (replace bad joints as needed) and 2-3/8" EUE 8rd N-80 workstring testing tubing to 6000 psi above slips. Tag sand at +/-10,492' on top of RBP at 10513'.
7. POW with 2-3/8" tubing, workstring and lay down BHA.

8. RIW 2-3/8" notched collar, SN, 2-3/8" EUE 8rd L-80 tubing and 2-3/8" EUE 8rd N-80 workstring to PBTD +/-10492'.
9. RU cementers and spot 25 sx class "H" cement or 209' (1.17 cuft/sk yield, casing capacity 0.0872 cuft/ft) above RBP with sand at +/-10,492' for a new PBTD of +/-10,157'. WOC 4 hours and tag plug at +/-10,157'.
10. Spot 10 bbls 9.5 ppg mud laden fluid 10157'-9610'. RD cementers.
11. POW with 2-3/8" tubing, workstring and BHA.
12. RUWL with 3000 psi lubricator and grease. RIW and set 4-1/2" CIBP at 9610' (top Strawn perf 9663'). RDWL. Spot 25 (3 sx) class "H" cement with dump bailer on CIBP at 9610' for PBTD 9575'.

2500 UK
Repair Casing Leak

13. POW with 2-3/8" tubing and BHA.
14. RIW with 4-1/2" x 2-3/8" Arrowset 1X packer, seating nipple, 2-3/8" EUE 8rd L-80 tubing and N-80 work string, and set packer at +/-9500', PBTD +/-9575'.
15. Test tubing/casing annulus to 500 psi and isolate leak in 4-1/2" casing. Suspect casing leak 1) above TOC 5492' in the Delaware from the 9-5/8" shoe at 2160' to the top of the Bone Spring at 4260', or 2) beneath the DV at 7665'; did not circulate 1st stg cmt thru DV. Attempt to establish 1 barrel per minute rate into leak at 500 psi. If needed spot 100 gals 15% HCl across leak interval to get desired injection rate for cement squeeze. Report results to Midland office.
16. POW with packer. A squeeze recommendation will follow...
17. After cement squeeze, RU pump truck and conduct MIT test on the casing to 500 psi maximum due to casing cement squeeze. Test casing to 500 psi with chart recorder. Report results to BLM and Midland office.
18. Circulate well with 3% KCL w/clay stabilizer, corrosion inhibitor and oxygen scavenger.
19. POW with tubing and lay down BHA.

Recomplete to U Penn (Cisco)

20. RIW with 4' x 2-3/8" EUE 8rd N-80 tubing sub, Arrowset IX 10k packer, TOSSD with 1.81" "F" profile nipple, and 2-3/8" EUE 8rd L-80 tubing to +/- 9200'. Reverse 5 bbls 3% KCL water into tubing.
21. ND BOP. NUWH, setting packer in 12 points compression.
22. Swab tubing to 8,000'.
23. RUWL with 3000 psi lubricator and grease. Perforate U Penn (Cisco) formation with 1-11/16" strip gun as follows:

9275' – 90' 16h, 1JSPF, 0.21 EHD)

16 total holes by Schlumberger Platform Express Three Detector Litho-Density Compensated Neutron-GR log dated 27-Mar-2001. POW, make sure all shots fired, and RDWL.

24. Flow well to test tank and evaluate.
25. RU pumping service. Install tree saver. Trap 500 psi on annulus. Acidize U Penn (Cisco) perms 9275'-90' via 2-3/8" tubing with 1000 gal 15% HCL NEFE DI acid (Cudd product or equivalent), dropping 32 7/8" RCN ball sealers evenly spaced after the first 250 gallons. Flush with 3% KCL water with clay stabilizer. Rate 4-6 bpm at max pressure 4000 psi. RD stimulation company and tree saver.

26. Flow back acid and swab load water to steel test tank and evaluate. If non-commercial recomplete to Wolfcamp

Recomplete to Wolfcamp

27. Kill well with 30 bbls 3% kcl water w/clay stabilizer.
28. NDWH, NU 5000 psi BOP.
29. Unseat Arrowset 1X packer at +/-9200'. RIW and spot 6 bbls mud ladened bw from 9575'-9200' w/3% kcl water and packer fluid.
30. POW with 2-3/8" EUE 8rd L-80 tubing, Arrowset IX 10k packer, TOSSD with 1.81" "F" profile nipple, 4' x2-3/8" EUE 8rd N-80 tubing sub, laying down +/-600'.
31. RUWL with 3000 psi lubricator and grease. RIW and set 4-1/2" CIBP at 9200' (top Cisco perf 9275'). RDWL. Spot 35' (3 sx) class "H" cement with dump bailer on CIBP at 9200' for PBTD 9165'.
32. RIW with notched collar, SN, 2-3/8" EUE 8rd L-80 tubing to 8570'. RU acid transport and circulate well with 3% Kcl water containing packer fluid and clay stabilizer, and spot 500 gals of 15% NEFE triple inhibited HCl acid (estimated tubing depth to equal bottom Wolfcamp lime OH log perf 8570').
33. POW with 2-3/8" EUE 8rd L-80 tubing.
34. Perforate Wolfcamp with 3-1/8" casing gun as follows:

8438' – 52' 29h, 1JSPF, 0.40 EHD, 60° phased)
8559' – 70' 23h, 1JSPF, 0.40 EHD, 60° phased)

52 total holes by Schlumberger Platform Express Three Detector Litho-Density Compensated Neutron-GR log dated 27-Mar-2001. POW, make sure all shots fired, and RDWL.

35. RU pump truck and displace 12 bbl spot acid via casing with 3% KCl water containing clay stabilizer at maximum rate attainable with maximum 1000 psi surface treating pressure.
36. RIW with 4' x2-3/8" EUE 8rd N-80 tubing sub, Arrowset IX 10k packer, TOSSD with 1.81" "F" profile nipple, and 2-3/8" EUE 8rd L-80 tubing to +/- 8400'. Reverse 5 bbls 3% KCL water into tubing.
37. ND BOP. NUWH, setting packer in 12 points compression.
38. Swab and flow back acid and load water to steel test tank and evaluate.
39. RU pumping service. Install tree saver. Trap 500 psi on annulus. Acidize Wolfcamp perfs 8438-8570' via 2-3/8" tubing with 1500 gal 15% HCL NEFE acid, dropping 75 7/8" RCN ball sealers evenly spaced after the first 250 gallons. Flush with 3% KCL water with clay stabilizer. Rate 4-6 bpm at max pressure 4000 psi. RD stimulation company and tree saver.
- (Note: Devon State BQ #1 Wlfcmp: PERF 2 SPF 60" WOLFCAMP FROM 8420-8430, 8370-8390 IN 2 RUNS FOR 30' AND 60 SHOTS. ACIDIZE WOLFCAMP PERFS W/3500 GAL 15% HCl, 90 1.3 SPGR 7/8" BS, 2115 GAL FLUSH - LOAD 36.5 BBL – BD W/2845 PSI & 2.8 BPM - PRESS MAX 3467, MIN 2903, AVG 3000 - RATE MAX 6.5, MIN 4.4, AVG 6.2 - ACHIEVED BALL OUT TO 5287 PSI W/ 90 BALLS ON PERFS - ISIP 1935 PSI, 5 MIN 1486, 10 MIN 1437, 15 MIN SIP 1417)
40. Flow back acid and swab load water to steel test tank and evaluate.
41. Turn well over to production and sales.
42. RDPU.

SRF/CWB
5/9/17

(LkShr10FedCom4 afe3266 Rpr Csk Lk_Rec to UPenn and Wlfc rev SRF_CWB 05-09-17.doc)

Lake Shore SC 10 Federal Com No. 4

Current as of 7-31-2001

Operator **Fasken Oil and Ranch, Ltd.**
 Location: 1310' FNL and 1160' FWL
 Sec 10, T21S, R26E
 Eddy County, NM
 Compl.: 5-29-01 11hr fl 414 mcf+3bw, 32/64"chk CP160psi
 API #: 30-015-31569

GL: 3212.5'
 KB: 3229.5'

TD: 11,117
 PBTD: 10,492' (**RBP@ 10,513'** w/2sx sd 5-23-01), (FC@11078')
 Casing: 13-3/8"54.5# J55 @ 625' Chry Cnyn 2154'
 w/200sx "H"+250sx 35/65POZ, 1" w/450 sx 15 stgs
 TOC surf
 9-5/8" 40# J55 @ 2160' Brshy Cnyn 3342'
 w/200sx "H"+375sx 50/50 POZ+200sx "C", circ to surf.
 TOC surf
 4-1/2" 11.6# L80 & S95 @ 11,117'

13-3/8"54.5# J55 @ 625'
 w/200sx "H"+250sx 35/65POZ, 1" w/450 sx
 TOC surf
 9-5/8" 40# J55 @ 2160'
 w/200sx "H"+375sx 50/50 POZ+200sx "C", c
 TOC surf

DV: 7664' Bone Spr 4260'
 1st stg 925sx Super "H", did not circ cmt thru DV
 2nd stg 300sx BJ Lite+1300sx Super "C"
 TOC 5492' by CBL

TOC 5492' by CBL

Tubing: Asof 7-31-01
 2-3/8" notched collar 0.30
 1 jt 2-3/8" EUE 8rd L80 tbg 32.5
 2-3/8"x1.81" ID "F" nipple 1.5
 AJL: 299 jts 2-3/8" EUE 8rd L80 tbg 9709.70
 32.47 (Estimated AJL to match rptd EOT) 9744.00
 Below KB 15.00
 EOT 9759.00

DV: 7664'
 did not circ cmt from 1st stg.
 2nd stg 300sx BJ Lite+1300sx Super "C"

Cisco 9236'

Perfs: Strawn Strawn 9,562'
 9663'-67' 1/18/2008 6/15/01
 9707'-13' 1/18/2008 6/15/01
 9772'-88' 4/17/2009 5/24/01
 RBP w/2sx sd 10,513' 5/23/01

EOT 9759.00
 9663'-67'
 9707'-13'
 9772'-88'

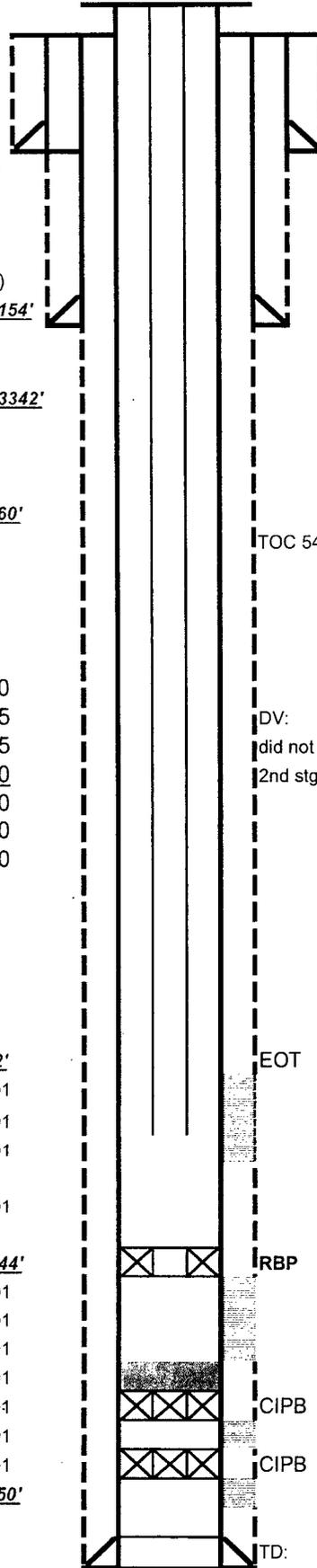
Perfs: Morrow Morrow 10,544'
 10,656'-63' 5/3/01
 10,679'-84' 5/3/01
 10,708'-16' 5/3/01
 CIPB 10,860' w/2sx 5/2/01
 Perfs: 10,890'-96' (Dec '82) 4/28/01
 CIPB 10,904' 4/27/01
 Perfs: 10,906'-24' (wet) 4/20/01

RBP 10,492' (**RBP@ 10,513'**w/2sx snd)
 10,656'-63'
 10,679'-84'
 10,708'-16'
 CIPB 10,679'-84'
 10,890'-96' (Dec '82)
 CIPB 10,904'
 10,906'-24' (wet)

Barnett 10,950'

Hole Sizes 17-1/2" 625', 12-1/4" 2160', 8-3/4" 11,117'
 Status: Shut-in suspected casing leak

4-1/2" 11.6# L80 & S95 @ 11,117'
 TD: 11,117
 TOC 5492' by CBL



Lake Shore SC 10 Federal Com No. 4

Proposed 5-8-17

Operator **Fasken Oil and Ranch, Ltd.**
 Location: 1310' FNL and 1160' FWL
 Sec 10, T21S, R26E
 Eddy County, NM
 Compl.: 5-29-01 11hr fl 414 mcf+3bw, 32/64"chk CP160psi
 API #: 30-015-31569

GL: 3212.5'
 KB: 3229.5'

TD: 11,117
 PBSD: 10,492' (RBP@ 10,513' w/2sx sd 5-23-01), (FC@11078')
 Casing: 13-3/8"54.5# J55 @ 625' Chry Cnyn 2154'
 w/200sx "H"+250sx 35/65POZ, 1" w/450 sx 15 stgs
 TOC surf
 9-5/8" 40# J55 @ 2160' Brshy Cnyn 3342'
 w/200sx "H"+375sx 50/50 POZ+200sx "C", circ to surf.
 TOC surf

13-3/8"54.5# J55 @ 625'
 w/200sx "H"+250sx 35/65POZ, 1" w/450 sx
 TOC surf
 9-5/8" 40# J55 @ 2160'
 w/200sx "H"+375sx 50/50 POZ+200sx "C", c
 TOC surf

DV: 7664' Bone Spr 4260'
 1st stg 925sx Super "H", did not circ cmt thru DV
 2nd stg 300sx BJ Lite+1300sx Super "C"
 TOC 5492' by CBL

TOC 5492' by CBL

Tubing: Proposed
 4' x2-3/8" EUE 8rd N-80 tubing sub 4.00
 Arrowset IX 10k packer w/ 6.50
 TOSSD with 1.81" "F" PN 1.50
 AJL: 285 jts 2-3/8" EUE 8rd L-80 tubing 9249
 32.45 9261
 Below KB 15
 EOT 9276

DV: 7664'
 did not circ cmt from 1st stg.
 2nd stg 300sx BJ Lite+1300sx Super "C"

Wolfcamp 8267'

EOT 9276

Perfs: 9275'-90' Proposed
CIBP 9610' w/35" "H" cmt to 9575' Cisco 9236'
 9.5ppg mud ladened fluid to 9610'.
Plug 10492' w/17sx "H" cmt to 10157'

Proposed Upenn (Cisco)
9275'-90' Proposed

Perfs: Strawn Strawn 9,562'
 9663'-67' 1/18/2008 6/15/01
 9707'-13' 1/18/2008 6/15/01
 9772'-88' 4/17/2009 5/24/01
 RBP RBP w/2sx sd 10,513' 5/23/01
 Perfs: Morrow Morrow 10,544'
 10,656'-63' 5/3/01
 10,679'-84' 5/3/01
 10,708'-16' 5/3/01
 CIPB 10,860' w/2sx 5/2/01
 Perfs: 10,890'-96' (Dec '82) 4/28/01
 CIPB 10,904' 4/27/01
 Perfs: 10,906'-24' (wet) 4/20/01
Barnett 10,950'

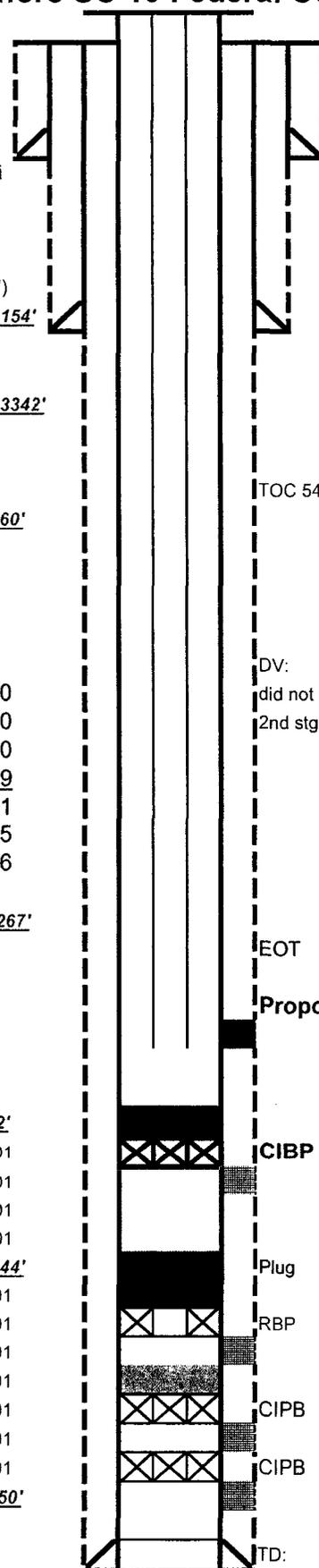
CIBP 9610' w/35" "H" cmt to 9575'
 9,663'-9788' Strawn
 9.5ppg mud ladened fluid to 9610'.
Plug 10492' w/17sx "H" cmt to 10157'
 RBP 10,492' (RBP@ 10,513'w/2sx snd)
 10,656'-10,716'
 CIPB 10,679'-84'
 10,890'-96' (Dec '82)
 CIPB 10,904'
 10,906'-24' (wet)
 4-1/2" 11.6# L80 & S95 @ 11,117'
 TD: 11,117

Hole Sizes 17-1/2" 625', 12-1/4" 2160', 8-3/4" 11,117'
 Status: Shut-in suspected casing leak

TOC 5492' by CBL

cwb
 5-8-17

Lake Shore10SCFedCom4_WBD.xls



Lake Shore SC 10 Federal Com No. 4

Operator **Fasken Oil and Ranch, Ltd.**
 Location: 1310' FNL and 1160' FWL
 Sec 10, T21S, R26E
 Eddy County, NM

Compl.: 5-29-01 11hr fl 414 mcf+3bw, 32/64"chk CP160psi
 API #: 30-015-31569

TD: 11,117
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 w/200sx "H"+250sx 35/65POZ, 1" w/450 sx 15 stgs
 TOC surf
 9-5/8" 40# J55 @ 2160' Brshy Cnyn 3342'
 w/200sx "H"+375sx 50/50 POZ+200sx "C", circ to surf.
 TOC surf
 4-1/2" 11.6# L80 & S95 @ 11,117'

DV: 7664' Bone Spr 4260'
 1st stg 925sx Super "H", did not circ cmt thru DV
 2nd stg 300sx BJ Lite+1300sx Super "C"
 TOC 5492' by CBL

Tubing: Proposed
 4' x2-3/8" EUE 8rd N-80 tubing sub 4.00
 Arrowset IX 10k packer w/ 6.50
 TOSSD with 1.81" "F" PN 1.50
 AJL: 258 jts 2-3/8" EUE 8rd L-80 tubing 8373.00
 32.45 8385.00
 Below KB 15.00
 EOT 8400.00

CIBP 9200' w/35" "H" cmt to 9165'
 Plug 9575'w/16sx"H" to 9390' (100' fr Cscs) Wolfcamp 8267'
 Perfs: 8438'-52', 8559'-70'

Perfs: 9275'-90' Upenn (Cisco) Test Cisco 9236'
 CIBP 9610' w/35" "H" cmt to 9575'
 Plug 10492' w/17sx "H" cmt to 10157'
 w/9.5ppg mud ladened fluid to 9610'.

Perfs: Strawn 9,562'
 9663'-67' 1/18/2008 6/15/01
 9707'-13' 1/18/2008 6/15/01
 9772'-88' 4/17/2009 5/24/01

RBP RBP w/2sx sd 10,513' 5/23/01
 Perfs: Morrow 10,544'
 10,656'-63' 5/3/01
 10,679'-84' 5/3/01
 10,708'-16' 5/3/01
 CIPB 10,860' w/2sx 5/2/01

Perfs: 10,890'-96' (Dec '82) 4/28/01
 CIPB 10,904' 4/27/01
 Perfs: 10,906'-24' (wet) 4/20/01
Barnett 10,950'

Hole Sizes 17-1/2" 625', 12-1/4" 2160', 8-3/4" 11,117'
 Status: Shut-in suspected casing leak

Proposed 5-9-17 if Upenn non-productive

GL: 3212.5'
 KB: 3229.5'

13-3/8"54.5# J55 @ 625'
 w/200sx "H"+250sx 35/65POZ, 1" w/450 sx
 TOC surf

9-5/8" 40# J55 @ 2160'
 w/200sx "H"+375sx 50/50 POZ+200sx "C", c
 TOC surf

TOC 5492' by CBL

DV: 7664'
 did not circ cmt from 1st stg.
 2nd stg 300sx BJ Lite+1300sx Super "C"

EOT 8400.00
Proposed Wolfcamp
8438'-52', 8559'-70'

CIBP 9200' w/35" "H" cmt to 9165'
9275'-90' Upenn (Cisco) Test

Plug 9575'w/16sx"H" to 9390' (100' fr Cscs)
 CIBP 9610' w/35" "H" cmt to 9575'

9,663'-9788' Strawn
 Plug 10492' w/17sx "H" cmt to 10157'
 w/9.5ppg mud ladened fluid to 9610'.
 RBP 10,492' (RBP@ 10,513'w/2sx snd)
 10,656'-10,716'

CIPB 10,679'-84'
 10,890'-96' (Dec '82)

CIPB 10,904'
 10,906'-24' (wet)
 4-1/2" 11.6# L80 & S95 @ 11,117'

TD: 11,117
 TOC 5492' by CBL

Lake Shore Fed S C 10 4
30-015-31569
Fasken Oil & Ranch Limited
August 08, 2017
Conditions of Approval

Notify BLM at 575-361-2822 a minimum of 24 hours prior to commencing work.

Work to be completed by November 08, 2017.

- 1. Operator shall tag RBP at 10,492' and place Class H Cement on top tagging at 10,157' as proposed to seal the Morrow formation.**
- 2. Operator shall place CIBP at 9610' and place 35' Class H cement as proposed. WOC and tag.**
- 3. Squeeze approved as written. If MIT fails contact BLM. Submit MIT chart with subsequent report.**

If Penn is unproductive continue as follows:

- 1. Operator shall place CIBP at 9200' and place 35' Class H cement as proposed. WOC and tag.**
- 2. Surface disturbance beyond the originally approved pad must have prior approval.**
- 3. Closed loop system required.**
- 4. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.**
- 5. Operator to have H2S monitoring equipment on location.**
- 6. A minimum of a 5000 (5M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (5M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.**

7. **Subsequent sundry required detailing work done, C-102 form, and completion report with the new formation. Operator to include well bore schematic of current well condition when work is complete.**
8. **See attached for general requirements.**

JAM 080817

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

Permanent Abandonment of Production Zone Conditions of Approval

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within **ninety (90)** days from this approval.

If you are unable to plug back the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged back. Failure to do so will result in enforcement action.

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plug back operations. For wells in Eddy County, call 575-361-2822. For wells in Lea County, call 575-393-3612

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of brine water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either **Neat Class "C"**, for up to 7,500 feet of depth or **Neat Class "H"**, for deeper than 7,500 feet plugs.

6. **Subsequent Plug back Reporting:** Within 30 days after plug back work is completed, file one original and three copies of the Subsequent Report, Form 3160-5 to BLM. The report should give in detail the manner in which the plug back work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date work was completed.**

7. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.