

District I
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Phone: (575) 393-6161 Fax: (575) 393-0720
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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

NM OIL CONSERVATION
ARTESIA DISTRICT Energy Minerals and Natural Resources

State of New Mexico

Form C-101
Revised July 18, 2013

NOV 21 2016

Oil Conservation Division

AMENDED REPORT

1220 South St. Francis Dr.

RECEIVED

Santa Fe, NM 87505

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

¹ Operator Name and Address BC OPERATING, INC. P.O. BOX 50820 MIDLAND, TX 79710		² OGRID Number 160825
		³ API Number 30-015-23220
⁴ Property Code 16438	⁵ Property Name CARLSBAD PECOS	⁶ Well No. 1

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
G	29	22 S	28 E		1980	NORTH	1980	EAST	EDDY

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
G	29	22 S	28 E		1980	NORTH	1980	EAST	EDDY

9. Pool Information

Pool Name DUBLIN RANCH; MORROW (GAS)	Pool Code 76140
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Additional Well Information

¹¹ Work Type P	¹² Well Type G	¹³ Cable/Rotary	¹⁴ Lease Type P	¹⁵ Ground Level Elevation 3,042'
¹⁶ Multiple	¹⁷ Proposed Depth 11908' - 11918'	¹⁸ Formation UPPER MORROW	¹⁹ Contractor	²⁰ Spud Date 11/15/2016
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	26"	20"	94#	382	800 SX	SURFACE
Inter.	17-1/2"	13-3/8"	48#/54.5#/61#	2708	2750 SX	SURFACE
Prod.	12-1/4"	9-5/8"	47#/53.5#	10526	1600SX +750SX	SURFACE
Liner	6-1/2"	5"	18#	9983' - 12550'	900 SX	9983'

Casing/Cement Program: Additional Comments

Had 1600sx cement behind 9-5/8" casing. Will recement w/ 750sx to surface to repair cement behind 9-5/8" csg.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
RAM	5000	4000	CAMERON

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

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: *Sarah Presley*

Printed name: SARAH PRESLEY

Title: REGULATORY ANALYST

E-mail Address: SPRESLEY@BCOPERATING.COM

Date: 11.15.2016

Phone: 432-684-9696

OIL CONSERVATION DIVISION

Approved By:

Saren Sharp

Title: *Bus Oper Spec-Adv*

Approved Date: *11-23-16*

Expiration Date: *11-23-18*

→ Provide current CIOZ prior to R/C operations ←

Conditions of Approval Attached

Well Information

Current Completion: Morrow 11,994' – 11,999'
 12,012' – 12,016'
 12,045' – 12,050'
 12,088' – 12,093'
 12,143' – 12,146'

Proposed Completion: Morrow 11,908' – 11,918'

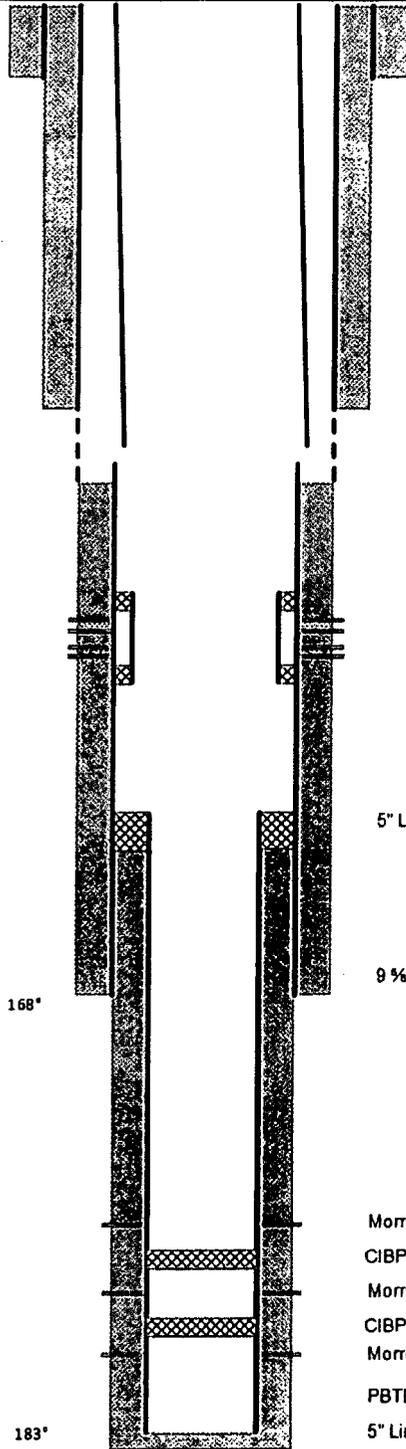
Formation Temperatures: 168° F @ 11,697'
 183° F @ 12,543'

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KB: 3,064'
 Ground Elevation: 3,042'

Tubulars:	Size	Weight	Grade	Top	Bottom
Surface:	20"	94.00 #/ft	H40 STC	Surface	382'
Intermediate 1:	13 3/8"	48/54.5/61 #/ft		Surface	2,708'
Intermediate 2:	9 5/8"	53.5/47.00 #/ft		Surface	10,526'
Liner:	5"	18 #/ft	N80 FL4S	9,983'	12,549'
Tubing:	2 7/8"	6.50 #/ft	N80 8RD	301 joints	
	2 7/8"		N80 CS HYD	83 joints	

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Carlsbad Pecos #1

Existing

20" 94# H40 STC @ 382'

13 3/8" 48/54.5/61# J55 STC @ 2,708'

Parted casing ± 2,967'

TOC @ 6,300' (TS)

Casing Leaks 5,892' to 6,225'
 7" 29# FL4S Liner 5,698' to 6,511' Set 09/1995
 Baker F-1 Packer @ 5,898'
 Baker FA-1 Packer @ 6,511'

5" Liner Top @ 9,983'

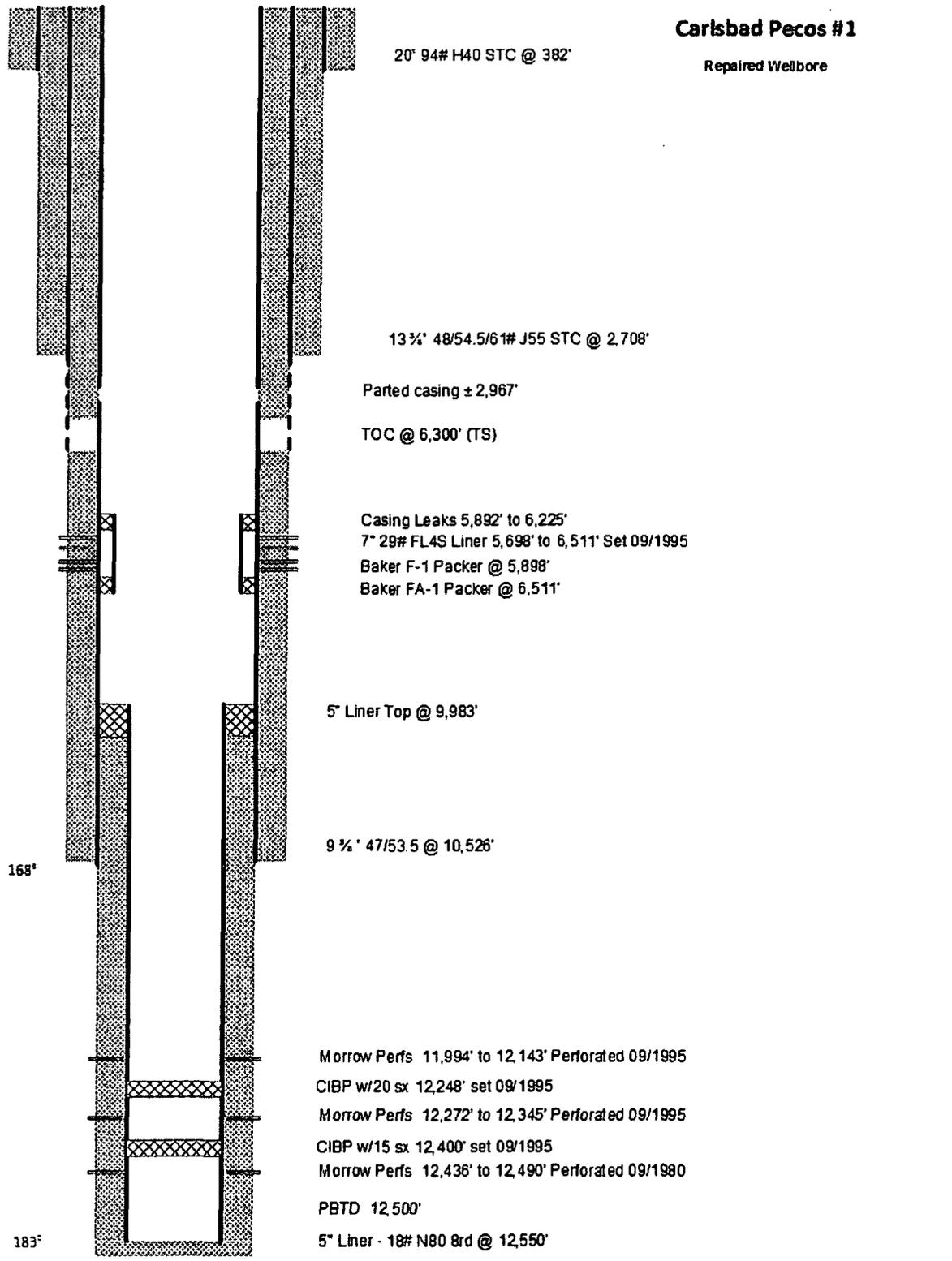
9 3/4" 47/53.5 @ 10,526'

Morrow Perfs 11,994' to 12,143' Perforated 09/1995
 CIBP w/20 sx 12,248' set 09/1995
 Morrow Perfs 12,272' to 12,345' Perforated 09/1995
 CIBP w/15 sx 12,400' set 09/1995
 Morrow Perfs 12,436' to 12,490' Perforated 09/1980
 PBTD 12,500'
 5" Liner - 18# N80 8rd @ 12,550'

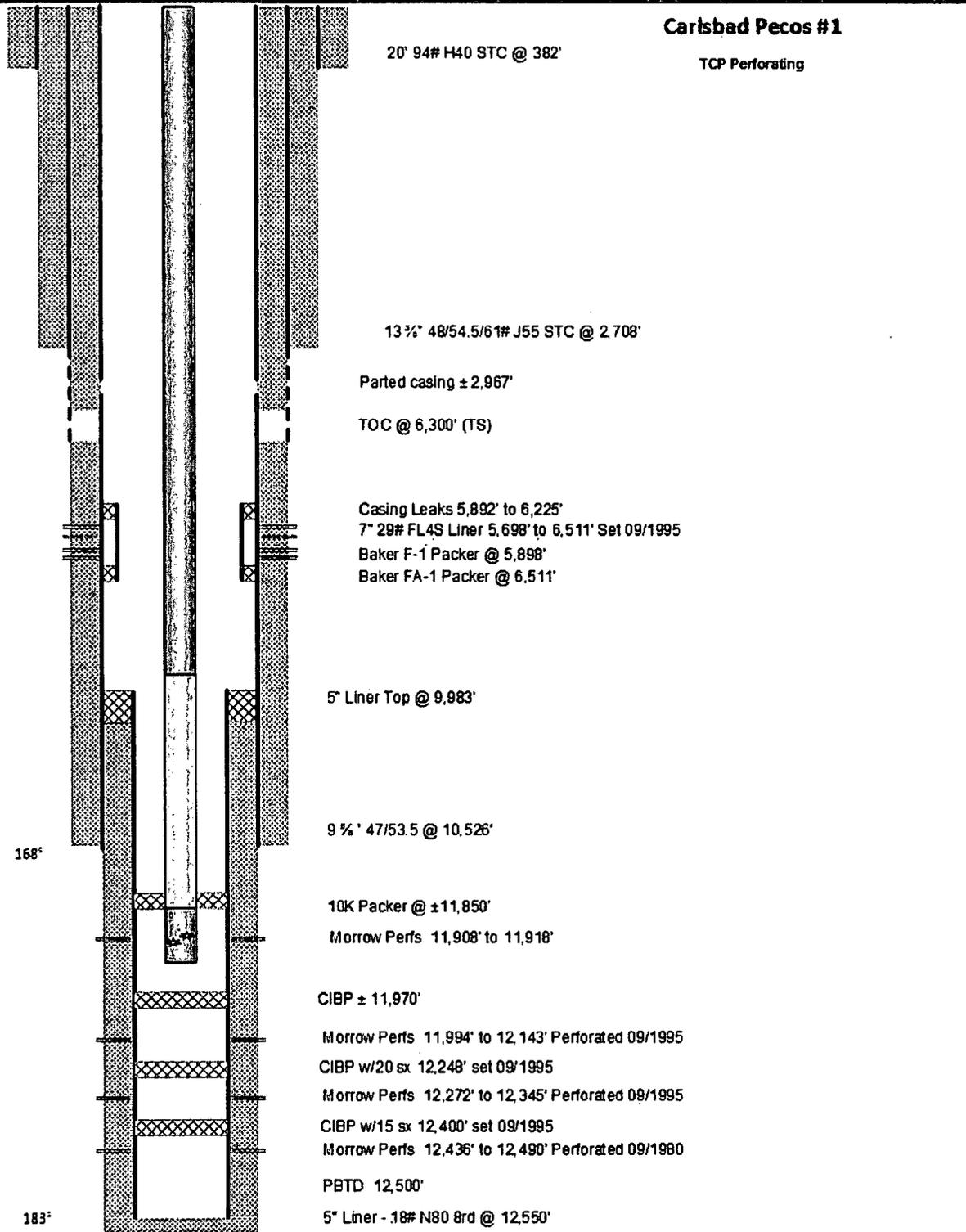
168'

183'

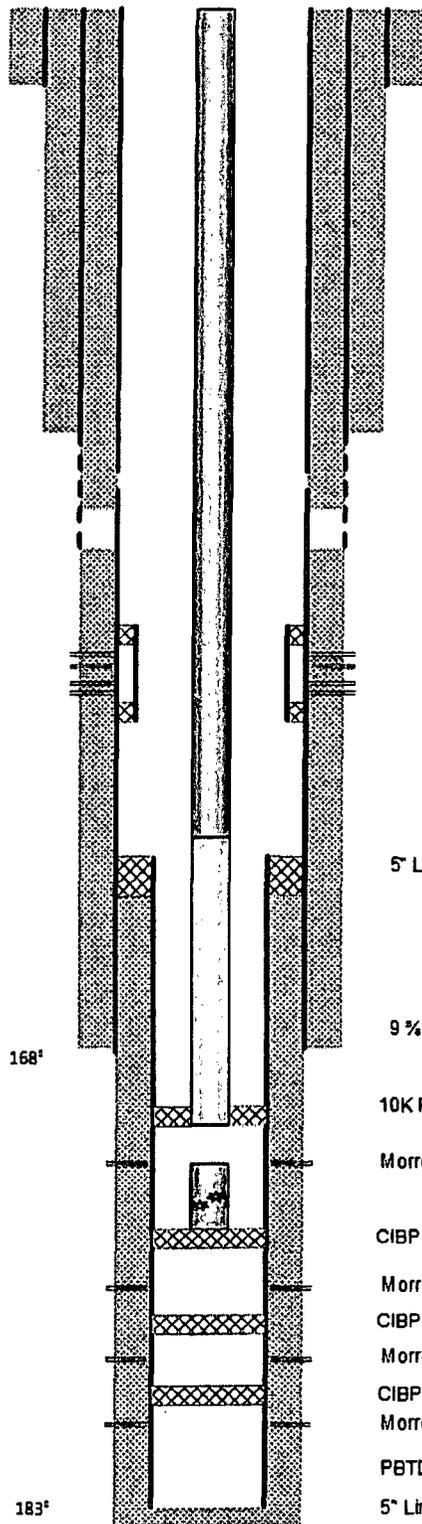
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Carlsbad Pecos #1

Final Completion

20' 94# H40 STC @ 382'

13 3/4' 48/54.5/61# J55 STC @ 2,708'

Parted casing ± 2,967'

TOC @ 6,300' (TS)

Casing Leaks 5,892' to 6,225'

7" 29# FL4S Liner 5,698' to 6,511' Set 09/1995

Baker F-1 Packer @ 5,898'

Baker FA-1 Packer @ 6,511'

5" Liner Top @ 9,983'

9 3/4' 47/53.5 @ 10,526'

10K Packer @ ±11,850'

Morrow Perfs 11,908' to 11,918'

CIBP ± 11,970'

Morrow Perfs 11,994' to 12,143' Perforated 09/1995

CIBP w/20 sx 12,248' set 09/1995

Morrow Perfs 12,272' to 12,345' Perforated 09/1995

CIBP w/15 sx 12,400' set 09/1995

Morrow Perfs 12,436' to 12,490' Perforated 09/1980

PBTD 12,500'

5" Liner - 18# N80 8rd @ 12,550'

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Procedure

- Evaluate condition of roads and location
 - Repair roads and location as needed.
 - Test anchors.
- Rig up ancillary equipment
 - Frac Tank
 - Flowback Tank.
 - Flow back equipment.
- Rig up workover unit.
- Kill well.
- Remove wellhead.
- Install BOP w/ 2 7/8" rams.
- TOH with production equipment.
 - Have 2 7/8" TIW Valve on rig floor.
- RIH w/ impression block.
- RIH w/ 9 5/8" Casing Alignment tool and set across casing part.
- Open 13 3/8" casing backside valves.
- Recement well to surface.
 - 500 sacks Halliburton Lite cement w/additives.
 - 250 sacks Class "C" cement w/additives.
- Close 13 3/8" casing backside valves.
- Squeeze with 10 bbls cement.
- Pull off cement retainer.
- Dump 1 bbl of cement on top of retainer.
- Reverse circulate tubing clean.
- POH w/tubing.
- GIH w/9 5/8" drillout assembly.
- Drillout Casing Alignment Tool.
- Cleanout to Top of 5" liner.
- POH w/drillout assembly.
- GIH w/5" cleanout assembly.
- Cleanout to 12,150' (11,990' minimum).
- POH w/tubing.
- Rig up cased hole wireline truck,
- RIH w/ gauge ring to ±11,990'.
 - Gauge ring for 5" 18# casing.
- RIH w/ CCL & GR cased hole logging tools.
 - Log from ± 11,980' to 10,500'.
- RIH w/ 5" CIBP and set at ±11,985'.
- Dump 2 sx of cement on top of plug.
- Rig down cased hole truck.
- GIH with 4.125" bit and tubing.
- Tag plug.
- Pickle tubing with 1,500 gallons of 15% DS FE acid.
- Circulate hole clean with 2% KCL Fresh water packer fluid containing 1 gal /m Surfactant.
- POH with 4.125" bit and tubing.

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- GIH with 5" production packer and TCP guns on 2 7/8" tubing loaded 6 shots/ft.
 - Correlate to Schlumberger Open Hole log dated 07/28/1980.
 - Use wireline GR tool for correlation.
 - Fill tubing until fluid level is \pm 500' from the top of the TCP firing head.
 - Hydrotest tubing to 7,500 psi while going in hole
- Set packer.
- Test annulus to 1,000 psi.
- ND BOP
- Rig up wellhead with choke assembly on tubing.
- Rig up flow lines.
- Drop bar and Perforate Morrow formation at 11,908' to 11,918'.
 - Drop guns after perforating.
- Rig down workover unit.
- Flow test well.
- Rig up kill truck on annulus.
- Rig up Acid and N2 equipment on tubing.
- Pressure up and maintain 1,000 psi on annulus with kill truck.
- Pump 500 gallons Mod-101 acid.
- Pump 10,000 scf N2.
- Pump 1,500 gallons Mod-101 acid with 1,000 scf/bbl N2.
- Drop 20 Bio-balls.
- Pump 1,000 gallons Mod-101 acid with 1,000 scf/bbl N2.
- Flush with 2% KCL water containing 1,000 scf/bbl N2.
- Obtain ISIP, 5", 10", & 15" shut-in pressures.
- Open well and flow back acid job.
- Test well.
- Put well on production.

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NMOCD CONDITION OF APPROVAL

The *New!* Gas Capture Plan (GCP) notice is posted on the NMOCD website under Announcements. The Plan became effective May 1, 2016. A copy of the GCP form is included with the NOTICE and is also in our FORMS section under Unnumbered Forms. Please review filing dates for all applicable activities currently approved or pending and submit accordingly. Failure to file a GCP may jeopardize the operator's ability to obtain C-129 approval to flare gas after the initial 60-day completion period.