

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

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

¹ Operator Name and Address Torch Energy Services, Inc. 1331 Lamar, Suite 1450 Houston, TX 77010		² OGRID Number 241401 ✓
		³ API Number 30-025-11147 ✓
⁴ Property Code 302966 ✓	⁵ Property Name Cooper Jal Unit	⁶ Well No. 105 ✓
⁹ Proposed Pool 1 Jalmat; Tansill, Yates, 7 Rivers (Oil)		¹⁰ Proposed Pool 2 Langlie Mattix; 7 Rivers, Queen, Grayburg

7 Surface Location

UL or lot no. F	Section 18	Township 24S	Range 37E	Lot Idn	Feet from the 1980	North/South line North	Feet from the 1980	East/West line West	County Lea ✓
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8 Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Additional Well Information

¹¹ Work Type Code E	¹² Well Type Code O/I	¹³ Cable/Rotary	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3295'
¹⁶ Multiple	¹⁷ Proposed Depth 3733'	¹⁸ Formation Queen	¹⁹ Contractor	²⁰ Spud Date
Depth to Groundwater 120'		Distance from nearest fresh water well >1000'		Distance from nearest surface water >1000'
Pit: Liner: Synthetic ☐ _____ mils thick Clay ☐ Pit Volume: _____ bbls Drilling Method: Closed-Loop System ☒ Fresh Water ☒ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐				

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
11"	8 5/8"	32	1252'	550	surface
7 7/8"	5 1/2"	17	3468'	250	2410'

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

- 1.) Re-enter CJU #105 (well was plugged 2/24/2000).
- 2.) Drill out 5 cement plugs @ surface-30', 1150'-1350', 1400'-1500', 2750'-3000', and 3365'-3400'. Drill out CIBP @ 3400'.
- 3.) Pressure Test 5 1/2" casing set @ 3468' (Double Ram Blowout Preventer- 3000 psi).
- 4.) Test well for production potential (OH from 3468'-3733').
- 5.) Test well for water injection potential.

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 the drilling pit will be constructed according to NMOC guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Signature:

Melanie Reyes

Printed name: Melanie Reyes

Title: Production Assistant

E-mail Address: reyesm@odessa.teai.com

Date: 4/27/07

Phone: 432-580-8500

OIL CONSERVATION DIVISION

Approved by:

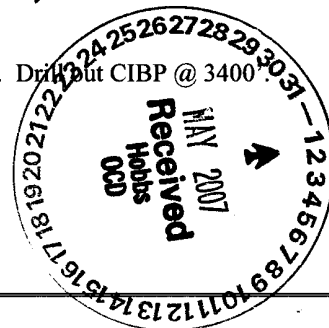
Chris Williams

Title: OC DISTRICT SUPERVISOR/GENERAL MANAGER

Approval Date: MAY 04 2007

Expiration Date:

Conditions of Approval Attached ☐



09/2 /2 12:08pm P. 002

Sep 20 02 01:33p

Vista

915-367-2678

P. 1

NL Shaffer

Pressure Control

RAM ASSEMBLIES AND PARTS FOR SENTINEL BOPS

SENTINEL RAM ASSEMBLIES			
7 1/4" BORE — 3,000 psi WORKING PRESSURE			
Part No. (Inches)	Quantity Assembled	Part No.	Part No.
ESD	221718	221719	221720
ESD	221721	221722	221723
ESD	221724	221725	221726
ESD	221729	221730	221731
ESD	221732	221733	221734
ESD	221737	221738	221739
ESD	221742	221743	221744
ESD	221747	221748	221749
ESD	221752	221753	221754
ESD	221757	221758	221759
ESD	221762	221763	221764
ESD	221767	221768	221769
ESD	221772	221773	221774
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ESD	221807	221808	221809
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ESD	221902	221903	221904
ESD	221907	221908	221909
ESD	221912	221913	221914
ESD	221917	221918	221919
ESD	221922	221923	221924
ESD	221927	221928	221929
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ESD	221952	221953	221954
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ESD	221982	221983	221984
ESD	221987	221988	221989
ESD	221992	221993	221994
ESD	221997	221998	221999
ESD	222002	222003	222004
ESD	222007	222008	222009
ESD	222012	222013	222014
ESD	222017	222018	222019
ESD	222022	222023	222024
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ESD	222032	222033	222034
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ESD			

WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC

Surface Csg.

Hole Size: 11 in
Csg. Size: 8 5/8 in
Set @: 1252 ft
Sxs Cmt: 550
Circ: Yes
TOC @: surf
TOC by: circ

Production Csg.

Hole Size: 7 7/8 in
Csg. Size: 5 1/2 in
Set @: 3468 ft
Sxs Cmt: 250
Circ: No
TOC @: 2410 f / surf.
TOC by: TS

PBTD: 3733 ft
TD: 3733 ft

OH ID: 4 3/4 in

TOC @ 2410'
By TS

OH Interval
3468 - 3733'

25 sxs cmt
CIBP @ 3400'

LEASE NAME

Cooper Jal Unit

WELL NC

105

STATUS:

P&A'd (2-24-00)

Oil

AP#

30-025-11147

LOCATION:

1980 FNL & 1980 FWL, Sec 18, T - 24S, R - 37E, Lee County, New Mexico

SPUD DATE:

TD

3733

KB

3,306'

DF

INT. COMP. DATE:

07/12/46

PBTD

3733

GL

3,295'

ELECTRIC LOGS:

Resistivity log from 1256 - 3472' (6-29-46 Schlumberger)
GR-CNLI from 2900 - 3734' (8-30-85 Dresser Atlas)
Tracer Survey (10-15-85 Cardinal Surveys)

CORES, DST'S or MUD LOGS:

HYDROCARBON BEARING ZONE DEPTH TOPS:

Yates @ 2950'

CASING PROFILE

SURF. 8 5/8" - 32#, J-55 set @ 1252' Cmt'd w/550 sxs - circ cmt to surf.

PROD. 5 1/2" - 17#, J-55 set @ 3468' Cmt'd w/250 sxs - TOC @ 2410' from surf buy Temp Survey.

LINER

None

CURRENT PERFORATION DATA

CSG. PERFS:

OPEN HOLE:

3468 - 3733'

TUBING DETAIL

ROD DETAIL

WELL HISTORY SUMMARY

12-Jul-46 Initial completion interval: 3468 - 3583' (Seven Rivers OH). No stimulation - IP=45 bopd, 0 bwpd, 300 Mcf/gpd (flowing)
19-Jul-46 Shot OH 3468 - 3583' with 200 qts nitro. (had trouble C/O hole afterwards)
10-May-58 C/O OH 1/3516-83'. Frac'd OH w/10,000 gals lse oil and 10,000#s sand diverting with 2 stages of moth balls - had slight pressure increase. AIR=37 bpm @ 2100 psi.
18-Sep-74 C/O fill in OH 1/3518 - 83'. Jet washed OH.
8-Nov-74 24 hr. tst-pmp, 30 bopd & 12 bwpd
3-Oct-75 24 hr. tst-pmp, 33 bopd & 10 bwpd
8-Oct-76 24 hr. tst-pmp, 47 bopd & 36 bwpd
3-Jan-77 24 hr. tst-pmp, 45 bopd & 46 bwpd
11-Feb-77 Pulled prod equipment. MA full of sand. Re-ran prod equip & returned to prod
8-May-77 24 hr. tst-pmp, 48 bopd & 52 bwpd
7-Sep-78 28 hr. tst-pmp, 36 bopd & 72 bwpd
5-Sep-85 Deepened well 150' to 3733' (TD). C/O, Ran GR-CNLI 1/3734 - 2900'.
Aodz OH w/2,000 gals 15% acid w/ 500#s rock salt in two stages.
Frac'd in 2 stages w/ 700#s rock salt diversion & 42,000 gals of 40 ppg crosslinked gel wtr / 82,500#s sand.
PM=4600 - 3200 psi @ AIR=30 bpm. ISIP=1000 psi. C/O to TD @ 3733'. Ran equip & placed well on prod
TOOH & LD pmp, rods, & tbg. Set CIBP w/ WL @ 3400'. Spot 25 sxs cmt on CIBP. Spot 25 sxs cmt from 3000 - 2750'. Perf'd 6 shots @ 1360'. Set pkr @ 400' & cmt sqz 50 sxs into perfs, ISIP=200 psi. WOC.
Tag TOC @ 1150'. Spot 15 sxs cmt from 30' - surf. Installed Dry hole marker & cleaned location.
NMOCD notified - well P&A'd 2-24-2000



PREPARED BY:

Larry S. Adams

UPDATED:

09-Sep-02

DISTRICT 1
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
1301 W. Grand Ave., Artesia, NM 88210
DISTRICT III
1000 N. Brazos Rd., Aztec, NM 87410
DISTRICT IV
1220 St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

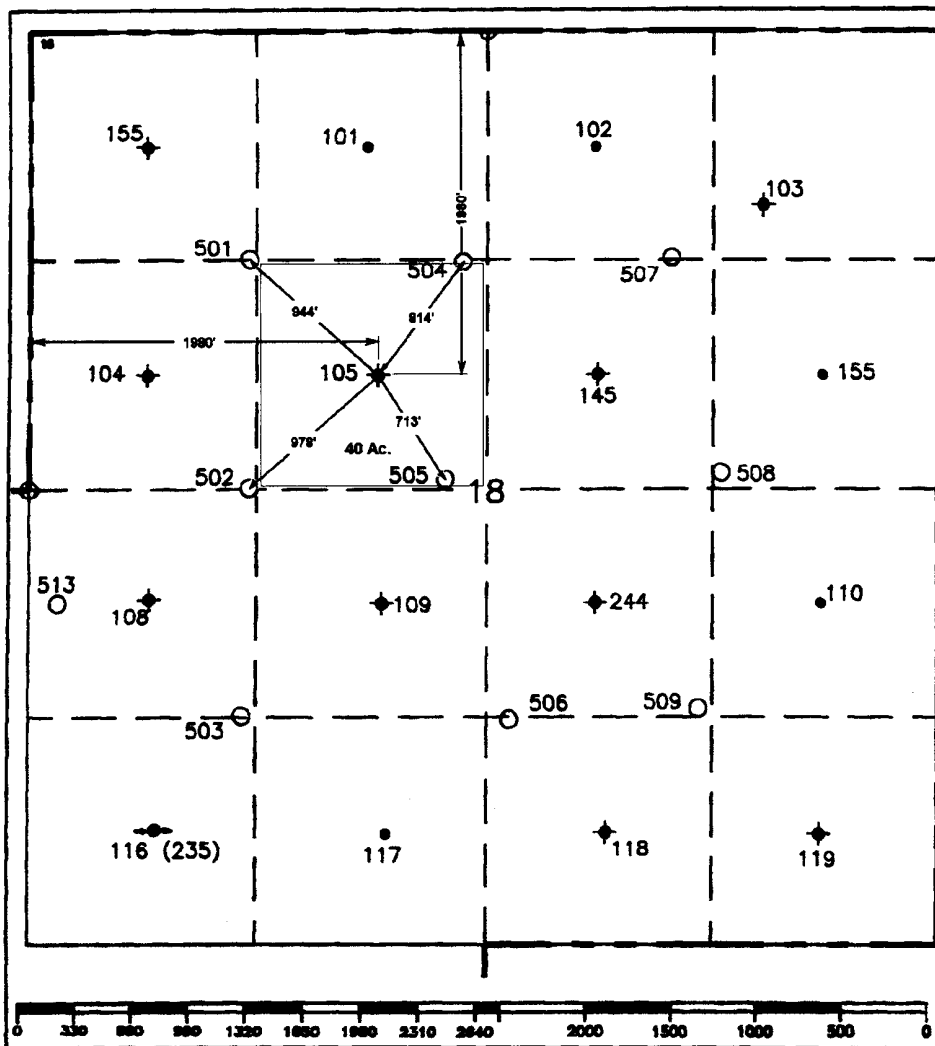
Form C-1021
Revised October 12, 2005
Submit to Appropriate District Office
State Lease-4 copies
Fee Lease-3 copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-11147		2 Pool Code		3 Pool Name Jalmat; Langlie Mattix					
4 Property Code		5 Property Name Cooper Jal Unit			6 Well Number 105				
7 OGRD No. 193003		8 Operator Name TORCH ENERGY SERVICES, INC. 1980'			9 Elevation 3304'				
10 Surface Location									
UL or lot no. J	Section 24	Township 24-S	Range 37-E	Lot Idn	Feet from the 1980'	North/South line North	Feet from the 1980'	East/West line West	County Lea
11 Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres 40		13 Joint or Infill		14 Consolidation Code		15 Order No.			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.



17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Jim Kidd 4-30-2007
Signature Date

Jim Kidd
Printed Name

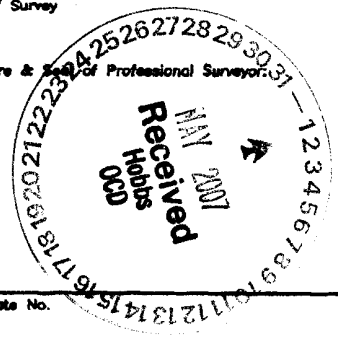
18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date of Survey

Signature & Seal of Professional Surveyor

Certificate No.



○ = Staked Location • = Producing Well ● = Injection Well ◇ = Water Supply Well ◆ = Plugged & Abandon Well
⊙ = Found Section Corner, 2 or 3" Iron Pipe & GLO B.C. ○ = Found 1/4 Section Corner, 1" Iron Pipe & GLO B.C.

ADDITIONAL INFORMATION ON THE LOCATION

State Plane Coordinates			
Northing	445312.02	Easting 890603.59	
Latitude		Longitude	
Zone	North American Datum	Combined Grid Factor	Coordinate File
East	1983/86	0.99988900	
Drawing File		Field Book	