

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 Property Code 302966	⁵ Property Name Cooper Jal Unit	⁴ API Number 30-025-11052
⁹ Proposed Pool 1 Jalmat; Tansill, Yates, 7 Rivers (Oil)		⁶ Well No. 244
⁹ Proposed Pool 2 Langlie Mattix; 7 Rivers, Queen, Grayburg		

7 Surface Location

UL or lot no. J	Section 18	Township 24S	Range 37E	Lot Idn	Feet from the 1980	North/South line South	Feet from the 1980	East/West line East	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 3301'
¹⁶ Multiple	¹⁷ Proposed Depth 3700'	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	1050'	400	surface
7 5/8"	5 1/2"	17	3452'	250	1950'
4 3/4"	4" Slotted Liner	9.5	3438'-3601'	NA	NA
Permit Expires 1 Year From Approval Date Unless Drilling Underway					

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 #244 (well was plugged 7/20/2000).
- 2.) Drill out 3 cement plugs @ surface-60', 945'-1350', 2300'-2800'. Drill out CIBP @ 2800'.
- 3.) Pressure Test 5 1/2" casing from 0 to 2800'. Squeeze perforations from 2850'-3205'.
- 4.) Clean out well to 3700' with 3" Bit (included 99' of new hole).
- 5.) Test well for production potential (slotted liner & open hole from 3452'-3700').
- 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 NMOCD 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: 5/7/07

Phone: 432-580-8500

OIL CONSERVATION DIVISION

Approved by:

Chris Williams

Title:

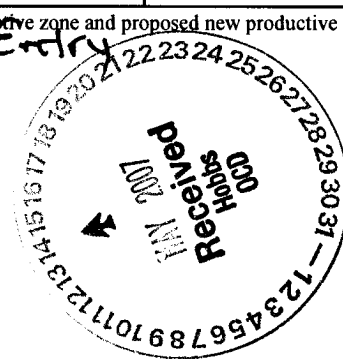
OC DISTRICT SUPERVISOR/GENERAL MANAGER

Approval Date:

Expiration Date:

MAY 21 2007

Conditions of Approval Attached ☐



WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC		LEASE NAME Cooper Jal Unit		WELL NC 244 (Formerly 149 & 306)	
Surface Csg Hole Size: 11 in Csg. Size: 8 5/8 in Set @: 1050 ft Sxs Cmt: 400 Circ: Yes TOC @: surf TOC by: circ Production Liner Hole Size: 4 3/4 in Csg. Size: 4 in Top: 3336 ft Btm: 3601 ft Sxs Cmt: unknown Circ: NO TOC @: unknown TOC by: Production Csg. Hole Size: 7 5/8 in Csg. Size: 5 1/2 in Set @: 3452 ft Sxs Cmt: 250 Circ: No TOC @: 1950 f / surf. TOC by: calc. PBTD: 0 ft TD: 3601 ft OH ID: 4 3/4 in		STATUS: P&A'd (7-24-2000) Oil		API# 30-025-11052	
		LOCATION: 1980 FSL & 1980 FEL, Sec 18, T - 24S, R - 37E; Lee County, New Mexico			
		SPUD DATE: TD 3601		KB 3,311' DF	
		INT. COMP. DATE: 08/10/46 PBTD		GL 3,301'	
Cmt plug 60' - surface: (18 sxs cmt) Cmt plug 945' - 1350' (50 sxs cmt) Perf'd 6 holes @ 1310' TOC @ 1950' By Calc. Cmt plug 2300' - 2800' (50 sxs cmt) CIBP @ 2800' Yates @ 2960' 2850' - 3205' 7-Rivers @ 3202' 4" slotted liner 3438 - 3601' QH Interval 3452 - 3601 Queen @ 3560'		GEOLOGICAL DATA ELECTRIC LOGS: GR-N from 2800 - 3498 (8-17-48 Lane Wells) GR-PFC (6-7-83 Dresser Atlas) HYDROCARBON BEARING ZONE DEPTH TOPS: Yates @ 2960' 7-Rivers @ 3202' Queen @ 3560' CORES, DSTS or MUD LOGS:			
		CASING PROFILE SURF. 8 5/8" - 32#, J-55 set @ 1050' Cmt'd w/400 sxs - circ cmt to surf. PROD. 5 1/2" - 15.5#, J-55 set @ 3452' Cmt'd w/250 sxs - TOC @ 1950' from surface by calculation. LINER 4" - 9.5#, J-55, FJ csg. set from (3601 - 3438 & 3438 - 3336')			
		CURRENT PERFORATION DATA CSG. PERFS: 3152 - 3205 w/1 spf (19holes) 2850 - 3090 Cmt sqz'd perfs. 3152 - 3205 Cmt sqz'd perfs. OPEN HOLE : 3452 - 3601			
		TUBING DETAIL ROD DETAIL			
WELL HISTORY SUMMARY 10-Aug-46 Initial completion interval: 3452' - 3601' (Seven RVS/Queen OH). Treated w/ 240 qts nitro. IP= 108 bopd, 0 bwppd, & 205 Mcf/gpd (flowing) 16-Nov-51 C/O fill from 3481' - 3591' (110'). Plug back from 3591' - 3585' w/ cmt to shut off water. After WO: 4 bopd & 0 bwppd 23-Apr-53 Set CIBP @ 3425' and dmp 2 sxs cmt on top. Perf'd (Yates) from 3152 - 3205' w/ 4 spf. Frac'd perfs w/ 15,000 gals Kerosene. After WO: 1171 Mcf/gpd @ TP=533 psi (flowing) 20-Aug-65 Producing 357 Mcf/gpd @ TP=174 psi (flowing) 12-Jun-66 Added perfs 2850', 2900', 2910', 2970', 2990', 3010', 3030', 3050', 3070', 3090' w/ 1 spf (10 holes total). Acid'd perfs 2850'-3090' w/ 1500 gals NE acid dropping 20 ball sealers. Swabbed dry. Frac perfs w/ 15,000 gals ise oil & 15,000#s 20/40 sand. Swabbed in well. Flowing 443 Mcf/gpd from perfs 2850'-3090'. Pulled BP and comingled all perfs. After WO: 375 Mcf/gpd @ TP= 150 psig. Did not recover frac load oil. 11-Oct-68 C/O 340' of salt and sand plugged tubing. 15-Jun-74 Dried out CIBP @ 3425' and cmt plug from 3585' - 3601'. Ran downhole hydraulic pumping equipment. Place all zones on production. After WO: 33 bopd, 4 bwpp, & 528 Mcf/gpd 9-Feb-76 Producing 21 bopd & 13 bwppd 19-Mar-76 C/O fill from 3481'-3591' (110'). Plug back from 3591' - 3585' w/ cmt to shut off water. After WO: 4 bopd & 0 bwppd. 19-Mar-76 C/O to 3601. Frac OH 3452 - 3601' w/30,000 gals gelled wtr & 40,000#s sand using 1000#s rock salt in 3 stages. After WO: 38 bopd & 25 bwppd (pmp) 30-Sep-77 Acid'd w/ 1000 gals 15% HCL followed by a chemical sqz. Before WO: 16 bopd & 40 bwppd After WO: 13 bopd & 53 bwppd 8-Nov-79 Downhole comingled production. Changed well number to 244 (NMOCD Order #R-6173) 9-Aug-82 Cmt sqz'd perfs 3152 - 3205'. Set 4" FJ liner from 3336 - 3601' (4" liner section 3438 - 3601' is slotted). Acid'd 3452'-3601' w/ 2,500 gals. 8-Jun-83 Perf'd 2850' - 3205' (19 - 0.44" holes total). Acid'd perfs w/3,000 gals. 20-Jul-00 Set CIBP @ 2800'. Circ csg w/ gelled brine. Spot 50 sxs cmt from 2800 - 2300'. Perf'd 6 holes @ 1310'. Spotted 50 sxs cmt from 1350 - 1000'. W/OOC. Tagged TOC @ 945'. Circ 18 sxs cmt from 60' to surface. Installed Dry hole marker & cleaned location. NMOCD notified - well P&A'd 7-24-2000.					
PREPARED BY: Larry S. Adams		UPDATED: 30-Apr-02			

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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

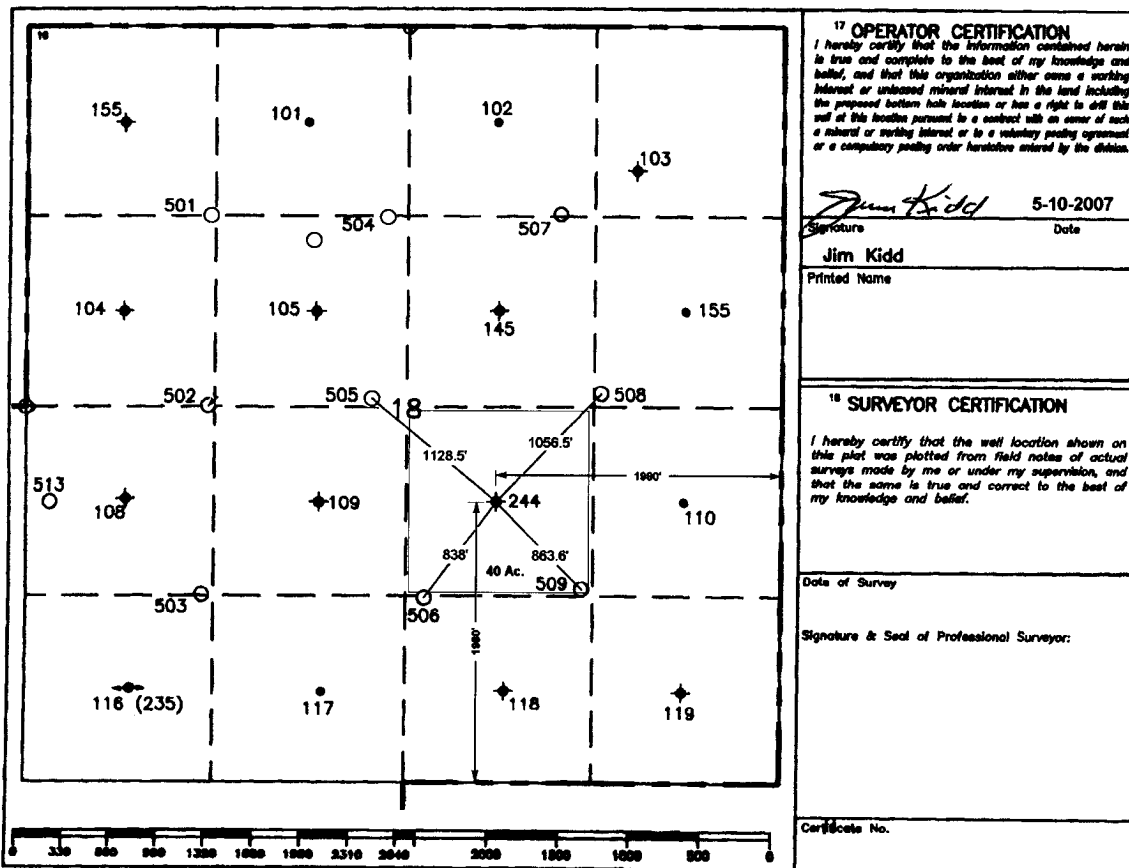
Submit to Appropriate District Office
State Lease-4 copies
Fee Lease-3 copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

1 API Number 30-025-11052		2 Pool Code		3 Pool Name Jalmit; Longie Mattix	
4 Property Code		5 Property Name Cooper Jal Unit			6 Well Number 244
7 OGRD No. 193003		8 Operator Name TORCH ENERGY SERVICES, INC.			9 Elevation 3301'
10 Surface Location					
UL or lot no. J	Section 18	Township 24-S	Range 37-E	Lot 1/4 1980'	North/South line South
Feet from the		Feet from the		East/West line	
1980'		1980'		East	
County		County Lea			
11 Bottom Hole Location If Different From Surface					
UL or lot no.	Section	Township	Range	Lot 1/4	North/South line
Feet from the		Feet from the		East/West line	
County		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.



○ = 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 444006.12		Easting 891938.69	
Latitude		Longitude	
Zone	North American Datum	Combined Grid Factor	Coordinate File
East	1983/86	0.99988900	
Drawing File		Field Book	

09/2 12 12:06pm P. 002

Sep 20 02 01:33p

Vista

915-367-2678

P. 1

NL Shaffer

Pressure Control

RAM ASSEMBLIES AND PARTS FOR SENTINEL BOPS

Part No. (inch)	Complete Assembly	Ram Block	Ram Bracket	
E 5 D	721713	721759	721715	
1 3/8	721713	721759	721741	
1 5/8	721713	721759	721745	
1 7/8	721716	721754	721746	
2 1/4	721727	721756	721747	
2 1/2	721728	721756	721748	
2 3/4	721729	721758	721753	
3 1/4	721740	721756	721749	
3 1/2	721741	721753	721750	
3 3/4	721743	721758	721751	

Complete Part Assemblies:
 721750 Ram Bracket
 721727 Ram Bracket

• In 1924, 20% of the population was Jewish.

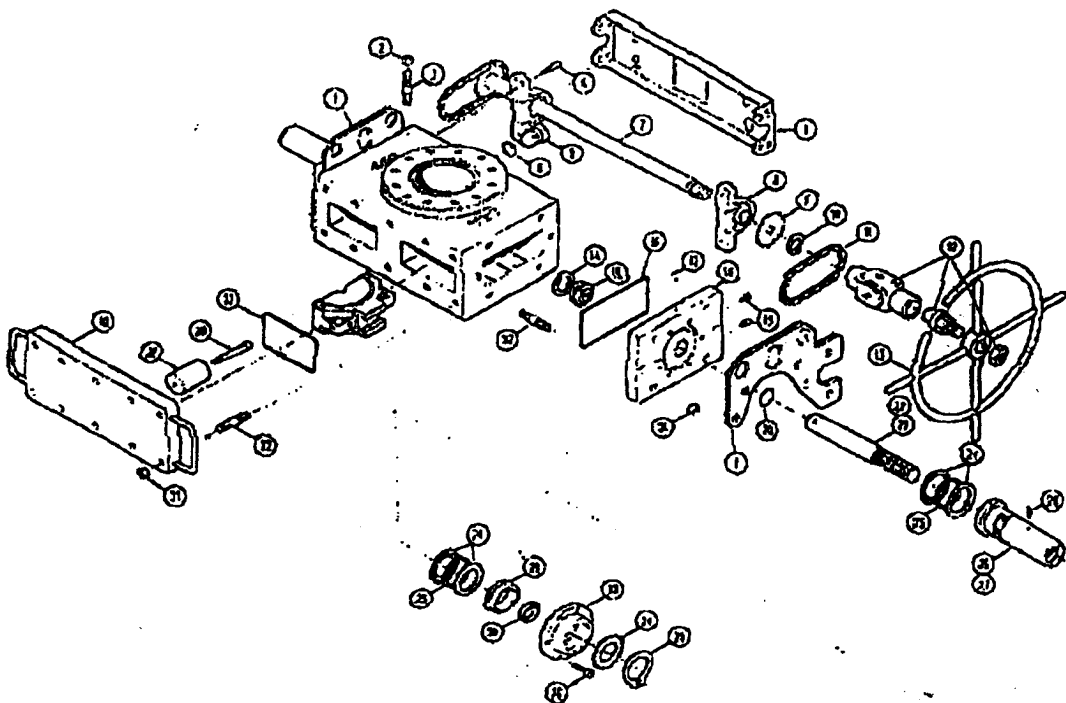
11	4-20-80	100	2
12	100	100	2
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14	100	100	2
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18	100	100	2
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97	100	100	2
98	100	100	2
99	100	100	2
100	100	100	2

* Quantity for sample should NOT double quantity for final run due to time involved

SENTINEL OFFSET RAM ASSEMBLIES				
7 1/4" BORE — 3,000 psi WORKING PRESSURE				
Site and Location*	Assembly Number	Start Date	Stop Date	Blow Count
Shallow (ft)				
7-1-312-NH	71042	7/18/53	7/18/57	7100
7-1-313-LH	71043	7/18/53	7/18/57	8200
7-1-315-NH	71047	7/18/53	7/18/57	2400
7-1-316-LH	71016	7/18/53	7/18/57	2100
7-1-300-NH	71009	7/18/53	7/18/57	2400
7-1-300-LH	71010	7/18/53	7/18/57	3000
7-2-201-NH	71001	7/18/53	7/18/57	2400
7-2-201-LH	71002	7/18/53	7/18/57	2400
7-2-201-NH	71003	7/18/53	7/18/57	2400
7-2-201-LH	71004	7/18/53	7/18/57	2400
7-2-201-NH	71005	7/18/53	7/18/57	2400
7-2-201-LH	71006	7/18/53	7/18/57	2400
7-2-201-NH	71007	7/18/53	7/18/57	2400
7-2-201-LH	71008	7/18/53	7/18/57	2400
7-2-201-NH	71009	7/18/53	7/18/57	2400
7-2-201-LH	71010	7/18/53	7/18/57	2400
Deep (ft)				
7-2-201-1-300-NH	71011	7/18/53	7/18/57	2400
7-2-201-1-300-LH	71012	7/18/53	7/18/57	2400
7-2-201-1-300-NH	71013	7/18/53	7/18/57	2400
7-2-201-1-300-LH	71014	7/18/53	7/18/57	2400

Common Port Manifold: 71015 (RAM 14000)
71016 (RAM 14000)

10-11-1964



RECEIVED
FEB 10 1968