

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		⁴ APT Number 30-025-11139
⁵ Property Name Cooper Jal Unit		⁶ Well No 118
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 O	Section 18	Township 24S	Range 37E	Lot Idn	Feet from the 660	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 3302'
¹⁶ Multiple	¹⁷ Proposed Depth 3628'	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 ☐ mls 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	1157'	500	Surface
7 7/8"	5 1/2"	14	3474'	250	1314' 151970'
4 3/4"	3 1/2" Liner	9.2	3400'	120	1000'

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 #118 (well was plugged 2/22/2000).
- 2.) Drill out 4 cement plugs @ surface-30', 1084'-1250', 2750'-3052'; & 3300'-3400'.
- 3.) Leave 10' of cement on top of the Cast Iron Bridge Plug @ 3400'.
- 4.) Pressure Test 5 1/2" casing from 0 to 3400' +/- If the casing passes, drill out the CIBP & drill to the original T.D. of 3628'.
- 5.) If well does not pass the pressure test, run a new 3 1/2" Steel Liner (J-55/ 9.2#/ft) to 3400' +/- & cement w/ Class "C" cement (est. 100 sks to give TOC @ 1000' F.S.)
- 6.) Test well for production potential
- 7.) Test well for water injection potential.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

Re-Entry

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: 8/16/07

Phone: 432-580-8500

OIL CONSERVATION DIVISION

Approved by:

Chris Williams

Title: OC DISTRICT SUPERVISOR/GENERAL MANAGER

Approval Date: AUG 21 2007

Expiration Date:

Conditions of Approval Attached ☐

WELLBORE SCHEMATIC AND HISTORY										
CURRENT COMPLETION SCHEMATIC			LEASE NAME Cooper Jal Unit				WELL NO 118			
			STATUS		P&A'd (2-22-00)		Water Injector		API# 30-025-11139	
			LOCATION 660 FSL & 1980 FEL, Sec 18, T - 24S, R - 37E, Lee County, New Mexico							
			SPUD DATE		TD 3628		KB 3,311'		DF	
			INT COMP DATE		09/26/46		PBDT 3628		GL 3,302'	
GEOLOGICAL DATA										
Surface Csg			ELECTRIC LOGS				CORES, DST'S or MUD LOGS			
Hole Size 11 in Csg Size 8 5/8 in Set @ 1157 ft Sxs Cmt 500 Circ Yes TOC @ surf TOC by circ			Injectivity profile (6-28-73 WACO) HYDROCARBON BEARING ZONE DEPTH TOPS Yates @ 2975' 7-Rivers @ 3205' Queen @ 3555'							
Cmt plug 30' - surf ↑ 9 5 ppg gelled bnne ↓ TOC @ 1084'			Perf 6 holes @ 1250' TOC @ 1970' 9 5 ppg gelled bnne ↓ Cmt plug 3052 - 2750'							
Yates @ 2975' 9 5 ppg gelled bnne ↓ Cmt plug 3400 - 3300' (25 sxs cmt)			7-Rivers @ 3205' CIBP @ 3400' OH Interval 3474 - 3628' Queen @ 3555'							
PBTD 3628 ft TD 3628 ft OH ID 4 3/4 in										
CASING PROFILE										
SURF 8 5/8" - 32#, J-55 set @ 1157' Cmt'd w/500 sxs - circ cmt to surf										
PROD 5 1/2" - 14#, J-55 set @ 3474' Cmt'd w/250 sxs - TOC @ 1970' from surf by calculation										
LINER None										
CURRENT PERFORATION DATA										
CSG PERFS										
OPEN HOLE 3474 - 3628'										
TUBING DETAIL										
ROD DETAIL										
WELL HISTORY SUMMARY										
26-Sep-46 Initial completion interval 3474 - 3628' (7 RVRs/Queen OH) Shot w/340 qts nitro iP = 68 bopd, 0 bwpr & 76 Mcfgpd (flowing) 1-Feb-61 T&A'd well 7-Sep-71 Converted to injection C/O to TD @ 3628' 14-Sep-68 C/O to 3620' and install new tbg string Return to injection @ 400 bwpr & TP = 490 psi 22-Feb-00 Set CIBP @ 3400' by WL Spot 25 sxs cmt on top of CIBP @ 3400' Spt 40 sxs cmt from 3052 - 2750' Perfd 6 holes @ 1250' Sqz'd 50 sxs cmt into perfs @ 1250', SIP = 200 psi WOC Tag TOC @ 1084' Pmp 15 sxs cmt from 30' - surface Installed Dry hole marker & cleaned location NMOCD notified - well P&A'd 2-22-2000										
Production Csg.										
Hole Size 7 7/8 in Csg Size 5 1/2 in Set @ 3474 ft Sxs Cmt 250 Circ No TOC @ 1970 f / surf TOC by calc										
			PREPARED BY				Larry S Adams		UPDATED	
							29-Apr-02			

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 1/2" BORE — 3,000 psi WORKING PRESSURE				
Part No.	Quantity	Part No.	Quantity	Part No.
1310	1	1311	1	1312
1313	1	1314	1	1315
1316	1	1317	1	1318
1319	1	1320	1	1321
1322	1	1323	1	1324
1325	1	1326	1	1327
1328	1	1329	1	1330
1331	1	1332	1	1333
1334	1	1335	1	1336
1337	1	1338	1	1339
1340	1	1341	1	1342
1343	1	1344	1	1345
1346	1	1347	1	1348
1349	1	1350	1	1351
1352	1	1353	1	1354
1355	1	1356	1	1357
1358	1	1359	1	1360
1361	1	1362	1	1363
1364	1	1365	1	1366
1368	1	1369	1	1370
1371	1	1372	1	1373
1375	1	1376	1	1377
1379	1	1380	1	1381
1383	1	1384	1	1385
1387	1	1388	1	1389
1391	1	1392	1	1393
1395	1	1396	1	1397
1399	1	1400	1	1401
1403	1	1404	1	1405
1407	1	1408	1	1409
1411	1	1412	1	1413
1415	1	1416	1	1417
1419	1	1420	1	1421
1423	1	1424	1	1425
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1431	1	1432	1	1433
1435	1	1436	1	1437
1439	1	1440	1	1441
1443	1	1444	1	1445
1447	1	1448	1	1449
1451	1	1452	1	1453
1455	1	1456	1	1457
1459	1	1460	1	1461
1463	1	1464	1	1465
1467	1	1468	1	1469
1471	1	1472	1	1473
1475	1	1476	1	1477
1479	1	1480	1	1481
1483	1	1484	1	1485
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1507	1	1508	1	1509
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1559	1	1560	1	1561
1563	1	1564	1	1565
1567	1	1568	1	1569
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1599	1	1600	1	1601
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1907	1	1908	1	1909
1911	1	1912	1	1913
1915	1	1916	1	1917
1919	1	1920	1	1921
1923	1	1924	1	1925
1927	1	1928	1	1929
1931	1	1932	1	1933
1935	1	1936	1	1937
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1943	1	1944	1	1945
1947	1	1948	1	1949
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1955	1	1956	1	1957
1959	1	1960	1	1961
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1967	1	1968	1	1969
1971	1	1972	1	1973
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1995	1	1996	1	1997
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2003	1	2004	1	2005
2007	1	2008	1	2009
2011	1	2012	1	2013
2015	1	2016	1	2017
2019	1	2020	1	2021
2023	1	2024	1	2025
2027	1	2028	1	2029
2031	1	2032	1	2033
2035	1	2036	1	2037
2039	1	2040	1	2041
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2087	1	2088	1	2089
2091	1	2092	1	2093
2095	1	2096	1	2097
2099	1	2100	1	2101
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2115	1	2116	1	2117
2119	1	2120	1	2121
2123	1	2124	1	2125
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2199	1	2200	1	2201
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2319	1	2320	1	2321
2323	1	2324	1	2325
2327	1	2328	1	2329
2				

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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-102
Revised October 12, 2005

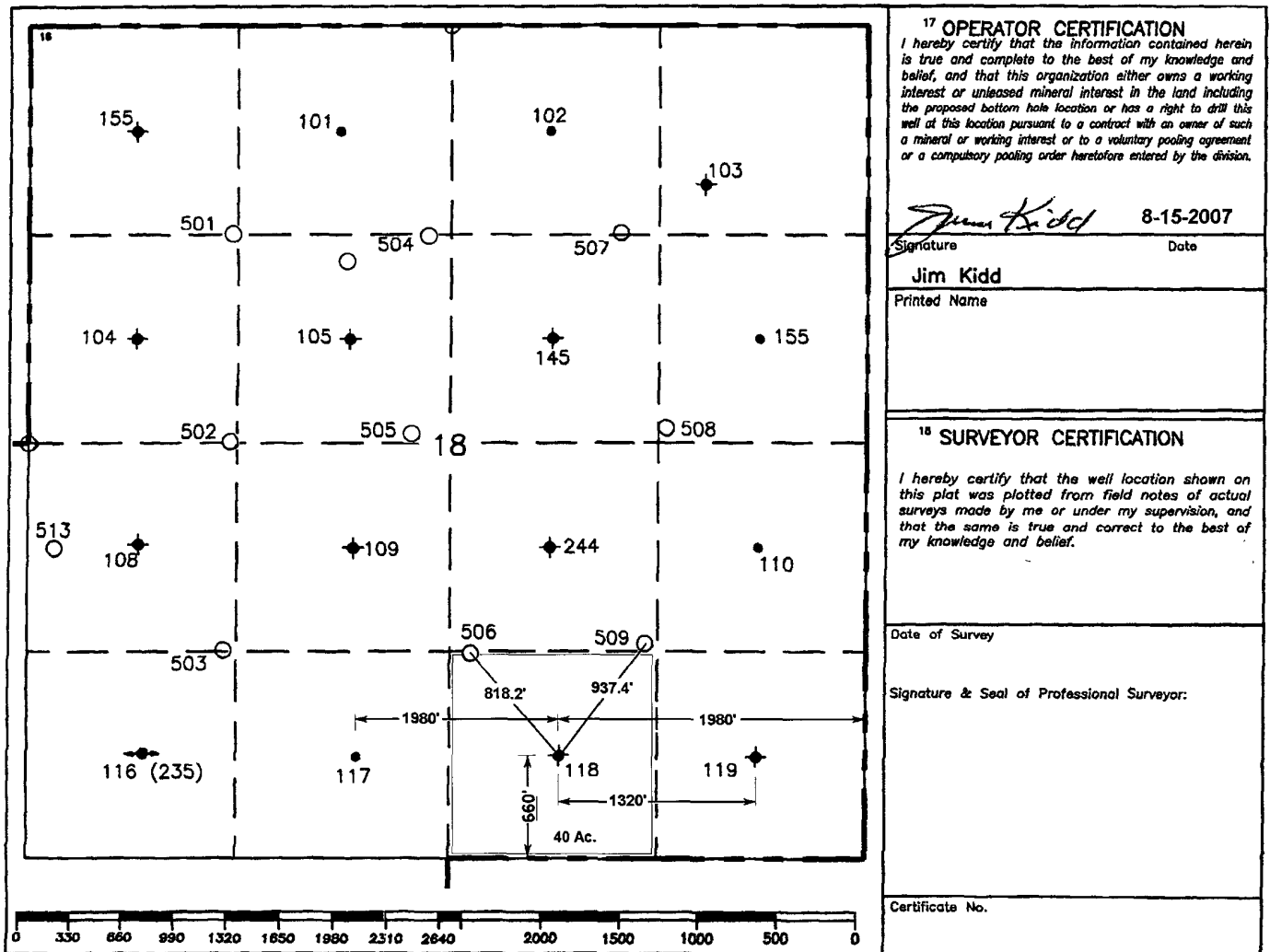
Submit to Appropriate District Office
State Lease-4 copies
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-11139		² Pool Code		³ Pool Name Jalmat; Langlie Mattix					
⁴ Property Code		⁵ Property Name Cooper Jal Unit						⁶ Well Number 118	
⁷ OCRID No. 193003		⁸ Operator Name TORCH ENERGY SERVICES, INC.						⁹ Elevation 3302'	
¹⁰ Surface Location									
UL or lot no. O	Section 18	Township 24-S	Range 37-E	Lot Idn	Feet from the 660'	North/South line South	Feet from the 1980'	East/West line East	⁷ 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	⁷ 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 /4 Section Corner, 1" Iron Pipe & GLO B.C.

ADDITIONAL INFORMATION ON THE LOCATION

State Plane Coordinates Northing 442702.42		Easting 891891.55	
Latitude		Longitude	
Zone East	North American Datum 1983/86	Combined Grid Factor 0.99988900	Coordinate File
Drawing File		Field Book	