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

State of New Mexico
Energy, Minerals & Natural Resources

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

Form C-104
Revised Feb. 26, 2007

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

[1] Operator name and Address	[2] OGRID Number
Torch Energy Services, Inc. 2600 W. I-20 Odessa, TX 79763	241401
	[3] Reason for Filing Code/ Effective Date Change from gas well to oil well

[4] API Number	[5] Pool Name	[6] Pool Code
30 – 025-11143	Jalmat	~~33820~~ 79240
[7] Property Code	**[8] Property Name**	**[9] Well Number**
302966	Cooper Jal Unit	110

II. [10] Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
I	18	24S	37E		1980	South	660	East	Lea

[11] Bottom Hole Location

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

[12] Lse Code	[13] Producing Method Code	[14] Gas Connection Date	[15] C-129 Permit Number	[16] C-129 Effective Date	[17] C-129 Expiration Date

III. Oil and Gas Transporters

[18] Transporter OGRID	[19] Transporter Name and Address	[20] O/G/W
034053	Plains Marketing, LP 10 Desta Drive, Suite 200E Midland, TX 79705	O
024650	Targa Midstream Services, LP 1000 Louisiana St., Suite 4300 Houston, TX 77002	G

RECEIVED
MAY 08 2008
HOBBS OCD

IV. Well Completion Data

[21] Spud Date	[22] Ready Date	[23] TD	[24] PBTD	[25] Perforations	[26] DHC, MC
		3587'	3587'	2994'-3208'	

[27] Hole Size	[28] Casing & Tubing Size	[29] Depth Set	[30] Sacks Cement
11"	8 5/8" 32# J-55	1200'	700 sx
7 5/8"	5 ½" 14# J-55	3450'	250 sx
2 3/8"	4.7# J-55 8rd EUE	3306'	

V. Well Test Data

[31] Date New Oil	[32] Gas Delivery Date	[33] Test Date	[34] Test Length	[35] Tbg. Pressure	[36] Csg. Pressure
		3/10/08	24 hours		
[37] Choke Size	**[38] Oil**	**[39] Water**	**[40] Gas**		**[41] Test Method**
	1	4	2		Test Separator

[42] I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name: Melanie Reyes

Title: Production Assistant

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

Date: 5/6/08 Phone: 432-580-8500

OIL CONSERVATION DIVISION

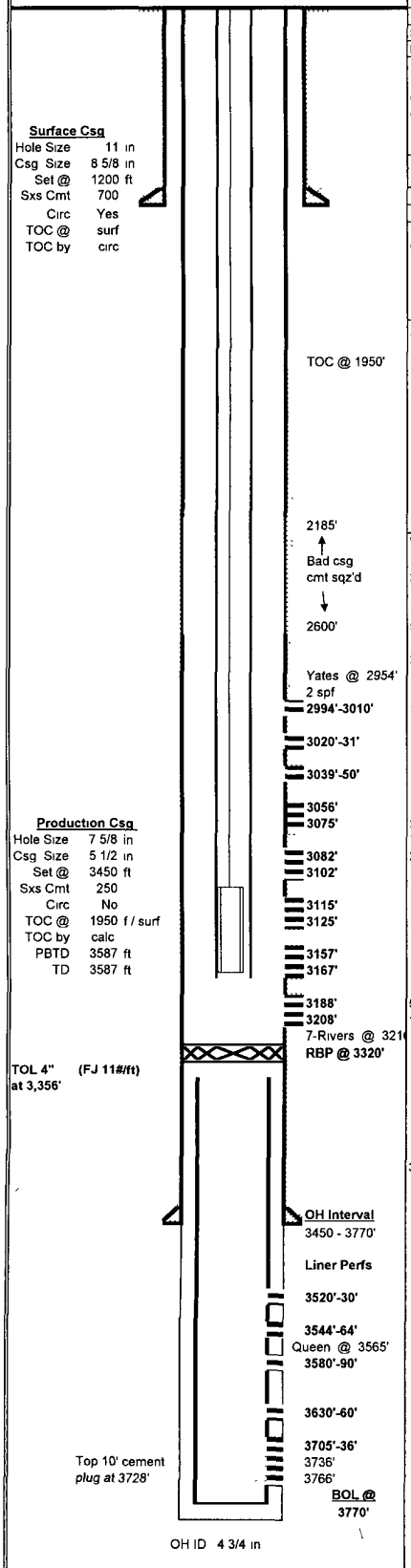
Approved by:

Title: PETROLEUM ENGINEER

Approval Date: AUG 27 2008

WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC



LEASE NAME	**Cooper Jal Unit**					WELL NO	**110**
STATUS	Active		Oil			API#	30-025-11143
LOCATION	1980 FSL & 660 FEL, Sec 18, T - 24S, R - 37E, Lee County, New Mexico						
SPUD DATE		TD	3587	KB	3,313'	DF	
INT COMP DATE	09/20/46	PBTD	3587	GL	3,303'		

GEOLOGICAL DATA

ELECTRIC LOGS

GR-CBL-CCL (9-26-96 Halliburton)
GR-DSN (9-26-96 Halliburton)

CORES, DST'S or MUD LOGS

HYROCARBON BEARING ZONE DEPTH TOPS

Yates @ 2954' 7-Rivers @ 3210' Queen @ 3565'

CASING PROFILE

SURF	8 5/8" - 32#, J-55 set@ 1200' Cmt'd w/700 sxs - circ cmt to surf
PROD	5 1/2" - 14#, J-55 set@ 3450' Cmt'd w/250 sxs - TOC @ 1950' from surf
LINER	None

CURRENT PERFORATION DATA

CSG PERFS OPEN HOLE 3450 - 3770'

11-Sep-96 Perf'd 2994 - 3010', 3020 - 31', 3039 - 50', & 3056 - 75' w/ 2 spf (114 holes -0 45" dia)
12-Aug-05 Perf'd f/ 3188'-3208', 3157'-67', 3115'-3125', and 3082'-3102', 1 JHPF, 60 feet
15-Aug-05 Perf'd liner 3520'-30', 3544'-64', & 3580'-90' 1 JHPF, 40', 3630'-60', & 3706'-36', 2 JHPF 60'

TUBING DETAIL 11/17/2005

Length (ft)		Detail
4	1	2 3/8" 4 7#, J-55, 8rd EUE tbg
2976	96	2 3/8" 4 7#, J-55, Super Max
5	1	5 1/2" x 2 3/8" TAC
320	10	2 3/8" 4 7#, J-55, Super Max
1	1	2 3/8" SN
4	1	2 3/8" Perf Sub
31	1	2 3/8" OEMA
3306		btm

ROD DETAIL 11/17/05

Length (ft)		Detail
16	1	1 1/4" x 26' polish rod w/ 7/8" pin
0	1	1 1/4" x 1 1/2" x 16' liner
12	2	7/8" pony rods
1275	59	7/8" steel rods
1650	66	3/4" steel rods
275	11	1 1/4" K-Bars
24	1	2" x 1 1/4" X 24' RHBC w/ SS 50 slot
0	1	1" x 10" gas anchor
3252		btm

WELL HISTORY SUMMARY

20-Sep-46	Initial completion interval 3450 -3587 (7 RVRS/Queen OH) shot w/ 260 qts **IP =55 bopd, 0 bwpd & 60 Mcfpd (flowing).**
15-Sep-57	C/O to 3567'
11-Jan-58	TA'd well
9-Feb-73	Converted to injector
14-Nov-83	Sqz'd csg leak @ 2185 - 2600' w/ 50 sxs cmt C/O to TD@ 3587' Return to injection @ 53 bwpd, TP=940 psi
28-Mar-86	**Re-sqz'd csg leak @ 2185 - 2600' w/50 sxs cmt.** C/O OH & aczs'd w/ 3,000 gals 15% NEFE HCL & 500#'s RS in *2 stages PM=1800 - 800 psi, AIR=5 bpm, ISIP=920 psi P15min=810 psi* Ran Baker AD-1 pkr on 2 3/8" IPC tbg Set pkr@ 3376' **After WO: Inj @ 130 bwpd @ 900 psi. Before WO: 53 bwpd @ 940 psi.**
11-Sep-96	**Set 5 1/2" CIBP@ 3400'.** Ran GR-CBL-CCL from 3400 - 2300' Ran GR- DSN log from 3400 - 2300' Dmp 35' cmt on CIBP at 3400' Tst csg to 500 psi OK **Perf. Jalmat formation w/ 2 spf f/ 2994'-3010', 3020'-31', 3039'-50', & 3056'-75' (114 holes -0 45" dia.).** Acdz'd all perfs w/3,000 gals 15% NEFE HCL & 153-7/8" RCN ballsealers Had good ball action PM= 3951 - 1026 psig @ AIR= 9 5 bpm ISIP=vac Frac perfs 2994 - 3075 w/ 137,760 gals of 50 quality CO2 foam & 390,720#'s 12/20 Brady sand PM= 4971 - 3700 psig AIR=45 bpm, ISIP=1350 psi, P5min=1249 psi, P10min=1225 psi, P15min=1185 psi C/O f/ 2986' - 3365' Installed Equipment and placed well on production
13-Jun-01	C/O fill from 3186' to 3365' RIH with production equipment and placed well on production
23-Jun-03	POOH with rods and pump RIH with new pump and rods Placed on production
7-Jul-03	*POOH with rods and pump Tagged fill at 3176' Ran same pump in hole* Placed on production Well would not pump Replaced pump
2-Aug-05	POOH laying down 2 3/8", scanalog result 1 - yellow, 17 blue, 61 - green, and 21 - red band RIH with 4 3/4" mill tooth bit and 26 - 3 1/2" drill collars, tagged at 3157' Drilled cement and CIBP @ 3400', cleaned out to TD at 3587' - recovered pieces of rubber and cast iron **Drilled new 4 3/4" hole from 3587' to 3770' in 6 days.** Had to cleaned out fill from 3580' to bottom every day Ran in hole with 3 1/8" Compensated Neutron Log - stucked at 3581' Load hole and pumped water, logging tool came loose Perf'd Yates f/ **f/ 3188'-3208', 3157'-67', 3115'-3125', and 3082'-3102', 1 JHPF, 60 feet.** RIH with BHA, tagged at 3568' - 202' of fill **RIH with 10 joints 4" FS Liner (414'); bottom of liner at 3770', top of liner at 3356'. Ran CNL f/ 3777' to 3200'. Perf'd liner 3520'-30', 3544'-64', & 3580'-90' 1 JHPF, 40'; 3630'-60', & 3706'-36', 2 JHPF 60'.** Frac'd Langlie Mattix with XL water plus 97,706# 20/40 mesh sand Pavg= 16798# at 24 7 bpm ISIP= 1071# Slick Water Frac'd Jalmat with 19,100# 20/40 mesh sand Pavg= 1606# at 30 bpm ISIP= 1153# Cleaned out from 3212' to 3777' RIH with production string PWOP
5-Oct-05	Changed out polish rod and liner
1-Nov-05	POOH w/ plunger, rods & tubing RIH w/ RBP & Pkr Pkr failed, RIH w/ 5 1/2" full bore Pkr **Found casing f/ 2315' to 2409'.** Swabbed leak, recovered 18 bbls water **w/ chlorides of over 140,000 ppm** Set RBP @ 3688' & Pkr @ 3673' Swabbed 84 bbs w/ chrorides o 2000 to 3000 ppm Re-set RBP & Pkr @ 3618' & 3518' Swabbed 25 bbls water, chlorides f/ 2000 to 3000 ppm Re-set RBP & Pkr @ 3470' to 3325' Swabbed 90 bbls water w/ chlorides of 3000 ppm Reset RBP & Pkr @ 3268' & 2928' Swabbed 34 bbls water w/ chlorides of 2000 to 3000 ppm Re-set RBP & Pkr @ 3618' & 3518' Swabbed 25 bbls water, chlorides f/ 2000 to 3000 ppm Re-set RBP & Pkr @ 3268' & 2928' Swabbed 34 bbls of water No chlorides reported POOH w/ Pkr & RBP RIH w/ bailer & cleaned sand f/ 3736' to 3774' **Perf'd liner f/ 3736'-3766', 1 jhpf, 1 JHPF 30'.** Located EOT @ 3767', **spotted w/ 10 sacks Class C Neat 2% CaCl. SION Tagged cmt @ 3728'** Swabbed 90 bbls of water No chlorides reported POOH w/ Pkr & RBP RIH w/ 5 1/2" RBP & Pkr, **set RBP at 3320'** to shut off Grayburg water flow Test RBP to 1000# SION RIH w/ 2 3/8" tubing, pump & rods Load & test well to 500# PWOP
30-Nov-05	Long stroked well

PREPARED BY	Larry S Adams	D Camzales	UPDATED	06-Dec-05