Form 3160-5 (August 2007)

HOBBS OCD
FEB 15 2012
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OCD-HOBBS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No 1004-0137
Expires July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – *Other instructions on page 2.*

5 Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.
Cooper Jal Unit- NM 070926X

1 Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
Cooper Jal Unit #141

2. Name of Operator
Resaca Operating Company

9. API Well No
30-025-11292

3a Address
1331 Lamar Street, Suite 1450
Houston, TX 77010

3b. Phone No *(include area code)*
(432) 580-8500

10 Field and Pool or Exploratory Area
Jalmat; T-Y-7R/ Langlie Mattix; 7R-Q-G

4 Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
Unit Letter D, Section 30, T-24S, R-37E, 330' FNL & 330' FWL

11. Country or Parish, State
Lea County, NM

12 CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☑ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other Drilled CIBP, Cleaned Out Well, DHC Jalmat & Langlie Mattix
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13 Describe Proposed or Completed Operation. Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection)

Purpose: Well originally producing from Jalmat (Yates- 2980'-3146'); Drilled out CIBP @ 3370' to open Langlie Mattix (7Rivers OH 3410'-3535'). Awaiting DHC Approval.

1.) MIRU Pulling Unit and Above Ground Steel Pit. POOH w/ production string. 11/28/2011
2.) RIH w 4 3/4" Bit, 6- 3 1/2" Drill Collars on 2 7/8" tubing. PU Swivel and drilled CIBP @ 3370', circulated well clean. 11/29/2011
3.) PU Swivel; Drilled & cleaned out to TD @ 3535', circulated well clean.
4.) POOH w/ tubing; LD drill collars & bit.
5.) Hydrotested tubing to 7000#, tested good; RIH w/ production string.
6.) RDMO Pulling Unit, cleaned location, cleaned and disposed of pit fluids. 12/1/2011
*Awaiting DHC Approval
*Per Conversation with Mr. Ed Fernandez

After the Fact

ACCEPTED FOR RECORD
FEB 13 2011
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

14 I hereby certify that the foregoing is true and correct Name *(Printed/Typed)*
Melanie Reyes

Title Engineer Assistant

Signature

Date 02/07/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon

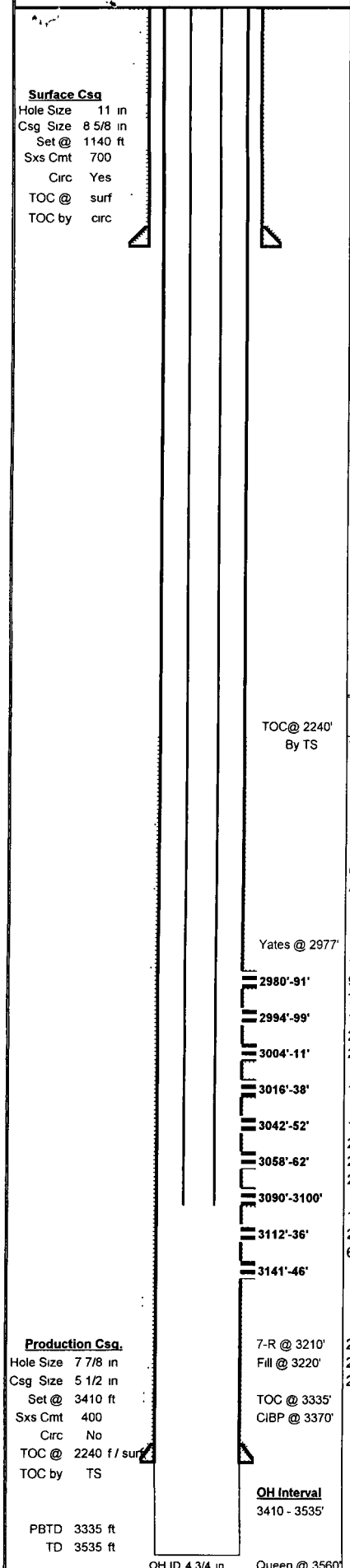
Office

Title 18 U S C Section 1001 and Title 43 U S C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC



LEASE NAME	**Cooper Jal Unit**					WELL NO	141
STATUS	Active		Oil			API#	**30-025-11292**
LOCATION	330 FNL & 330 FWL, Sec 30, T - 24S, R - 37E, Lee County, New Mexico						
SPUD DATE		TD	3535	KB	3,292'	DF	
INT COMP DATE	09/09/55	PBTD	3335	GL	3,279'		

GEOLOGICAL DATA

ELECTRIC LOGS

GR-N from surface - 3535' (9-6-55 Lane Wells)
Temperature Survey (9-1-55 Halliburton)
GR-CCL from 2800 - 3425' (10-5-93 Halliburton)

CORES, DST'S or MUD LOGS

HYROCARBON BEARING ZONE DEPTH TOPS

Yates @ 2977' 7-Rivers @ 3210' Queen @ 3560'

CASING PROFILE

SURF	8 5/8" - 24#, J-55 set@ 1140' Cmt'd w/700 sxs - circ cmt to surf
PROD	5 1/2" - 14#, J-55 set@ 3410' Cmt'd w/400 sxs - TOC @ 2240' from surface by Temp Survey
LINER	None

CURRENT PERFORATION DATA

CSG PERFS OPEN HOLE 3410 - 3535'

4-Oct-93 **Perf'd Yates (Jalmat)** f/ 2980 - 91', 2994 - 99', 3004 - 11', 3016 - 38', 3042'-52', 3058'-62', 3085'-88', 3090'-3100', 3112 - 36', 3141 - 46' w/ 2 spf (202 holes total - 0.56 dia , 120 deg phasing)

TUBING DETAIL 12/1/2011

Length (ft)		Detail
2535	78	2 7/8" 6 5#, J-55, 8rd EUE tbg
3	1	5 1/2" x 2 7/8" TAC
360	11	2 7/8" 6 5#, J-55, 8rd EUE tbg.
31	1	2 7/8" x 3 1/2" Blast Joint
4	1	2 7/8" perf Sub
24	1	2 7/8" Working Barrel
4	1	2 7/8" perf Sub
19	1	2 7/8" Desander
128	1	3 1/2" Mud Anchor
3108		

ROD DETAIL 12/1/2011

Length (ft)		Detail
20	1	26' x 1/1/4" polish rod w/7/8" pin
0	1	1 1/4" x 1 1/2" x 14' liner
875	35	1" D steel rods
1500	60	7/8" D steel rods
500	20	1 1/4" sinker bars
20	1	2 1/2" x 1 1/2" X 20' RHBC pump
0	1	1 1/4" x 8' gas anchor
2915		

WELL HISTORY SUMMARY

9-Sep-55	IC: **3410 - 3535' (7 RVRS/Queen OH).** Acdz'd with 500 gals mud acid Frac'd with 4,000 gals lease oil with 10,000#'s sand **IP= 141 bopd, 0 bwpd, & 133.5 Mcfgpd (flowing).**
18-Aug-71	**CONVERTED WELL TO INJECTION:** C/O to TD @ 3535 Ran 2 3/8" CL tubing & PKR Set PKR @ 3370 Initiated injection
28-Sep-74	Replaced 1 joint tubing Return to injection.
30-Mar-77	Replaced 1 joint tubing Return to injection
6-Feb-93	C/O fill 3416 - 3535'. Acdz'd with 5,000 gals 15% with 3% mutual solvent in 3 stages using 500# rock salt each for diversion
4-Oct-93	**Set CIBP @ 3370'.** Dump 35' cement on top of CIBP PBTD @ 3335' **Perf'd Yates (Jalmat)** f/ 2980'-3146' (10 intervals, 2 spf, 202 holes) Frac perfs with 41,000 glas 30# X-L gel carrying 183,600#'s 12/20 sand and 40,580#'s resin coated 12/20 sand AIR= 34 5 bpm Pmax= 1923 psig. ISIP+1380 psig, P15min=1066 psig Cleaned out sand f/ 3180'-3335' Install tubing, pump, and rods PWOP **After WO: 46 bopd, 422 bwpd, & 16 Mcfgpd.**
17-Feb-95	Replaced 1 bad jt tbg Returned well to production.
9-Oct-95	Change out pmp Returned well to production
7-Oct-97	Ran tubing inspection Replaced 22 joints of tubing Ran new gas anchor and pump on rods Placed well on production.
14-Oct-99	Replaced 1 bad joint tubing Returned well to production
27-Mar-00	Change out pmp Returned well to production
27-Feb-04	POOH with rods and pump Tagged at 3282', POOH with tubing Hydrotest tubing to 7000 psig - found hole 3 joints above SN RIH with pump and rods. PWOP
17-Aug-06	POOH w/ rods, pump and tubing - found hole on joint above SN. Laid down 5 joints due to pitting Hydrotest tubing to 7000 psig in hole - burst 92nd joint Replaced 52 - 7/8" and 6 - 1" rod boxes. Load and test pump to 500 psig. PWOP
19-Jul-07	POOH w/ rods, pump & tbg Hydrotest tubing to 7000# in hole - found hole on 96th joint RIH w/ tbg, pump & rods PWOP
20-Oct-08	POOH w/rods, pump & tbg (laid 3 jts w/severe pitting) Hydrotest tbg to 7000# in hole - burst 2 jts RIH w/tbg. PWOP
24-Nov-08	POOH with rods and stuck pump in tubing. Hydrotest tubing to 7000#. RIH with pump and rods
27-Jul-09	POOH w/ rods, pump & tbg RIH w/Tag Bar - **tagged at 3,220'.** RIH w/Pressure Tool, **ran pressure gradient every 500' . Pressure @ 3000' = 404 psig.** Hydrotest tubing to 7000# in hole - test good. RIH with tubing, pump & rods PWOP
1-Oct-10	POOH with rods and pump Changed out pump RIH with pump and rods PWOP.
28-Oct-10	POOH with rods and pump RIH pump and rods PWOP.
6-Apr-11	POOH with production string. RIH with 5 1/2" PKR to 2,900' Test csg to 500# RIH with 4 3/4" bit, cleaned out from 3,100' to 3,335' - no fill. RIH with 5 1/2" PKR on 4 1/2" frac string. Set PKR @ 2,920' - test annulus to 500# - okay Acidized Yates with 9,000 gals 15% HCl dropping 366 BIO Balls Foam sand frac'd Yates with 100,000# Brady brown plus 100,000# resin coated and 0 847 MMCF of N@ Pmax= 2820#, ISIP= 1390 psig. Flowed back for two days - trace of oil POOH with work string Cleaned out frac sand from 3045' to 3,335' RIH with Prod string. PWOP
27-Aug-11	POOH with parted 1" - rods (surface break). POOH w/ rods and pump RIH with production string PWOP
24-Oct-11	POOH with rods, pump and tubing Ran BHP Survey, tagged at 3346'. Hydrotest to 7000# - OK. PWOP.
28-Nov-11	POOH with rods, pump and tubing RIH with 4 3/4" bit, tagged fill @ 3,334' Drilled CIBP @ 3,370' Drilled to TD @ 3,535' Hydrotest tubing to 7,000# - good RIH with pump and rods PWOP

PREPARED BY:	Larry S Adams	Domingo Carrizales	UPDATED	19-Dec-11

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(August 2007)

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Cooper Jal Unit- NM 070926X

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No
Cooper Jal Unit #141

2 Name of Operator
Resaca Operating Company

9 API Well No.
30-025-11292

3a. Address
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Houston, TX 77010

3b Phone No. *(include area code)*
(432) 580-8500

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Jalmat; T-Y-7R/ Langlie Mattix; 7R-Q-G

4. Location of Well *(Footage, Sec , T.,R.,M , or Survey Description)*
Unit Letter D, Section 30, T-24S, R-37E, 330' FNL & 330' FWL

11. Country or Parish, State
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TYPE OF SUBMISSION	TYPE OF ACTION			
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	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other Downhole Commingle Jalmat & Langlie Mattix Pools
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
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DHC- 3445

Purpose: Requesting Approval to Downhole Commingle Jalmat & Langlie Mattix Pools. Well originally producing from Jalmat (Yates- 2980'-3146'); Drilled out CIBP @ 3370' to open Langlie Mattix (7Rivers OH 3410'-3535').

Jalmat Pool- Perforations in Yates from 2980'-3146'; Well Test (24 Hour) 10/4/2011- 3 oil, 3 mcf, 557 water;
Oil Allocation Percentage- ~~75%~~ 94, Gas Allocation Percentage- ~~75%~~ 71

Langlie Mattix Pool- Open Hole in 7 Rivers from 3410'-3535'; Well Test (24 Hour) 12/8/11- 1 oil, 1 mcf, 136 water
Oil Allocation Percentage- ~~25%~~ 6, Gas Allocation Percentage- ~~25%~~ 29

*Per Conversation with Mr. Ed Fernandez

Note to Operator - on All future Request Attach Copy of DHC order

APPROVED
FEB 13 2012
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

14 I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
Melanie Reyes

Title Engineer Assistant

Signature

Date 02/07/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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LOCATION	330 FNL & 330 FWL, Sec 30, T - 24S, R - 37E, Lee County, New Mexico				
SPUD DATE		TD 3535	KB 3,292'	DF	
INT COMP DATE	09/09/55	PBTD 3335	GL 3,279'		

Surface Csg
Hole Size 11 in
Csg Size 8 5/8 in
Set @ 1140 ft
Sxs Cmt 700
Circ Yes
TOC @ surf
TOC by circ

TOC@ 2240'
By TS

Yates @ 2977'

2980'-91'
2994'-99'
3004'-11'
3016'-38'
3042'-52'
3058'-62'
3090'-3100'
3112'-36'
3141'-46'

Production Csg.
Hole Size 7 7/8 in
Csg Size 5 1/2 in
Set @ 3410 ft
Sxs Cmt 400
Circ No
TOC @ 2240 f / surf
TOC by TS

7-R @ 3210'
Fill @ 3220'
TOC @ 3335'
CIBP @ 3370'

OH Interval
3410 - 3535'

PBTD 3335 ft
TD 3535 ft

OH ID 4 3/4 in
Queen @ 3560'

GEOLOGICAL DATA

ELECTRIC LOGS

GR-N from surface - 3535' (9-6-55 Lane Wells)
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LINER	None

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19-Jul-07	POOH w/ rods, pump & tbg Hydrotest tubing to 7000# in hole - found hole on 96th joint RIH w/ tbg, pump & rods. PWOP
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28-Oct-10	POOH with rods and pump . RIH pump and rods PWOP
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28-Nov-11	POOH with rods, pump and tubing RIH with 4 3/4" bit, tagged fill @ 3,334' Drilled CIBP @ 3,370' Drilled to TD @ 3,535'. Hydrotest tubing to 7,000# - good RIH with pump and rods PWOP
20-Dec-11	POOH with parted 3/4" x 2' rod sub aove Plunger RIH with Plunger and rods. PWOP

PREPARED BY: Larry S Adams Domingo Carnzales | UPDATED: 05-Jan-12