Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD Copy

FORM APPROVED
OMB NO. 1004-0135
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 reverse side.

5. Lease Serial No.
NMNM113418

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

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

8. Well Name and No.
PRODIGAL SUN 17 24 34 1H

2. Name of Operator
CHEVRON U.S.A. INC.
Contact: DENISE PINKERTON
E-Mail: leakejd@chevron.com

9. API Well No.
30-025-41957

3a. Address
15 SMITH ROAD
MIDLAND, TX 79705

3b. Phone No. (include area code)
Ph: 432-687-7375

10. Field and Pool, or Exploratory
RED HILLS;BN SPR, N

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 17 T24S R34E Mer NMP 330FNL 1660FEL

11. County or Parish, and State
LEA COUNTY, NM

HOBBS OCD
MAR 20 2015
RECEIVED

12. CHECK 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
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Drilling Operations
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

08/13/2014 THROUGH 08/14/2014: DRILLED 120-1315'.
08/15/2014: RAN 13 3/8" SURFACE CSG SET @ 1308'.(CSG SUMMARY ATTACHED)
08/16/2014: CMT W/1610 SX CMT. (CMT SUMMARY ATTACHED).220 BBLS OF CMT BACK TO SURFACE. WOC 18 HRS.
08/17/2014 THROUGH 08/20/2014: DRILL 1325 - 5253'.
08/20/2014: RAN 9 5/8" INTERMEDIATE CSG & SET @ 5245'.
08/21/2014: CMT W/1695 SX CMT. 132 BBLS OF CMT BACK TO SURFACE.
08/22/2014 THROUGH 08/30/2014: DRILL 5254 - 15,250 TD.
09/01/2014: RAN 5 1/2" PRODUCTION CSG & SET @ 15,236.
09/02/2014: CMT W/2070 SX CMT. NO CMT TO SURFACE.
09/03/2014: RELEASE RIG.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #295075 verified by the BLM Well Information System
For CHEVRON U.S.A. INC., sent to the Hobbs
Committed to AFMSS for processing by LINDA JIMENEZ on 03/17/2015 ()

ACCEPTED FOR RECORD

Name *(Printed/Typed)* DENISE PINKERTON — Title REGULATORY SPECIALIST

Signature (Electronic Submission) — Date 03/16/2015

MAR 18 2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By — Title — Date

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

MAR 26 2015

Additional data for EC transaction #295075 that would not fit on the form

32. Additional remarks, continued

****DRILLING SUMMARY IS ATTACHED

Casing Summary

Well Name	Lease	Field Name	Business Unit
PRODIGAL SUN 17-24-34 001H	Prodigal Sun 17-24-34	Red Hills North	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,564.00	3,589.00	3,589.00, 8/8/2014		

Surface, Planned?-N, 1,308ftKB

Set Depth (MD) (ftKB)	Set Tension (kips)	String Nominal OD (in)	String Min Drift (in)	Centralizers	Scratchers
1,308		13-3/8		11	

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
30	Casing Joint	13 3/8	12.715	48.00	H-40	ST&C	24	1,263	1,238.58		
1	Float Collar	13 3/8	12.715			ST&C	1,263	1,264	1.35		
1	Casing Joint	13 3/8	12.715	48.00	H-40	ST&C	1,264	1,307	42.94		
1	Float Shoe	13 3/8	12.715			ST&C	1,307	1,308	0.65		

Intermediate Casing 1, Planned?-N, 5,245ftKB

Set Depth (MD) (ftKB)	Set Tension (kips)	String Nominal OD (in)	String Min Drift (in)	Centralizers	Scratchers
5,245		9-5/8	8.688		

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
1	Casing Joint	9 5/8	8.844	40.00	HCK-55	ST&C	25	25	0.00	3,950.0	4,230.0
1	Landing Joint	9 5/8	8.844	40.00	HCK-55	ST&C	25	25	0.00	3,950.0	4,230.0
1	Casing Hanger	9 5/8	8.844	40.00	HCK-55	ST&C	25	30	5.00	3,950.0	4,230.0
131	Casing Joint	9 5/8	8.844	40.00	HCK-55	ST&C	30	5,166	5,135.52	3,950.0	4,230.0
1	Float Collar	9 5/8	8.844	40.00	HCK-55	ST&C	5,166	5,167	1.23	3,950.0	4,230.0
2	Casing Joint	9 5/8	8.844	40.00	HCK-55	ST&C	5,167	5,243	76.09	3,950.0	4,230.0
1	Float Shoe	9 5/8	8.844	40.00	HCK-55	ST&C	5,243	5,245	1.68	3,950.0	4,230.0

Production Casing, Planned?-N, 15,236ftKB

Set Depth (MD) (ftKB)	Set Tension (kips)	String Nominal OD (in)	String Min Drift (in)	Centralizers	Scratchers
15,236		5 1/2	4.781		

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110		23	23	0.00	10,640.0	7,480.0
1	Casing Joint	5 1/2	4.892	17.00	P-110		23	23	0.00	10,640.0	7,480.0
1	Landing Joint	5 1/2	4.892	17.00	P-110		23	23	0.00	10,640.0	7,480.0
1	Casing Hanger	5 1/2	4.892	17.00	P-110		23	25	1.87	10,640.0	7,480.0
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110		25	28	2.94	10,640.0	7,480.0
86	Casing Joint	5 1/2	4.892	17.00	P-110		28	3,500	3,471.87	10,640.0	7,480.0
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110		3,500	3,509	9.56	10,640.0	7,480.0
168	Casing Joint	5 1/2	4.892	17.00	P-110		3,509	10,234	6,724.20	10,640.0	7,480.0
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110		10,234	10,243	9.53	10,640.0	7,480.0
119	Casing Joint	5 1/2	4.892	17.00	P-110		10,243	15,034	4,790.53	10,640.0	7,480.0
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110		15,034	15,045	11.11	10,640.0	7,480.0
1	RSI Tool/Toe Sleeve	5 1/2	4.892	17.00	P-110		15,045	15,050	5.53	10,640.0	7,480.0
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110		15,050	15,061	10.69	10,640.0	7,480.0
1	Casing Joint	5 1/2	4.892	17.00	P-110		15,061	15,102	40.60	10,640.0	7,480.0
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110		15,102	15,112	10.00	10,640.0	7,480.0
1	Landing Collar	5 1/2	4.892	17.00	P-110		15,112	15,113	1.46	10,640.0	7,480.0
1	Casing Joint	5 1/2	4.892	17.00	P-110		15,113	15,154	40.54	10,640.0	7,480.0
1	Float Collar	5 1/2	4.892	17.00	P-110		15,154	15,155	1.29	10,640.0	7,480.0
2	Casing Joint	5 1/2	4.892	17.00	P-110		15,155	15,234	79.59	10,640.0	7,480.0
1	Float Shoe	5 1/2	4.892	17.00	P-110		15,234	15,236	1.53	10,640.0	7,480.0

Report Printed: 3/16/2015

Cement Summary

Production Casing Cement

Well Name	Lease	Field Name	Business Unit
PRODIGAL SUN 17-24-34 001H	Prodigal Sun 17-24-34	Red Hills North	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,564.00	3,589.00	3,589.00, 8/8/2014		

Original Hole

Wellbore Name	Directional Type	Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole	Horizontal	10,303	179.49

Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)
17 1/2	24.5	1,315.0
12 1/4	1,315.0	5,254.0
8 3/4	5,254.0	15,250.0

<typ>, <make> on <dttmstart>

Type	Install Date

Des	Make	Model	WP (psi)	Service	SN

Surface, Planned?-N, 1,308ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Surface	Original Hole	8/15/2014	1,308	-24.5	

Centralizers	Scratchers
11	

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
30	Casing Joint	13 3/8	12.715	48.00	H-40		ST&C	1,238.58	24	1,263
1	Float Collar	13 3/8	12.715				ST&C	1.35	1,263	1,264
1	Casing Joint	13 3/8	12.715	48.00	H-40		ST&C	42.94	1,264	1,307
1	Float Shoe	13 3/8	12.715				ST&C	0.65	1,307	1,308

Intermediate Casing 1, Planned?-N, 5,245ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Intermediate Casing 1	Original Hole	8/20/2014	5,245	-25.5	

Centralizers	Scratchers

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Casing Joint	9 5/8	8.844	40.00	HCK-55		ST&C	0.00	25	25
1	Landing Joint	9 5/8	8.844	40.00	HCK-55		ST&C	0.00	25	25
1	Casing Hanger	9 5/8	8.844	40.00	HCK-55		ST&C	5.00	25	30
131	Casing Joint	9 5/8	8.844	40.00	HCK-55		ST&C	5,135.52	30	5,166
1	Float Collar	9 5/8	8.844	40.00	HCK-55		ST&C	1.23	5,166	5,167
2	Casing Joint	9 5/8	8.844	40.00	HCK-55		ST&C	76.09	5,167	5,243
1	Float Shoe	9 5/8	8.844	40.00	HCK-55		ST&C	1.68	5,243	5,245

Production Casing, Planned?-N, 15,236ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Production Casing	Original Hole	9/1/2014	15,236	-23.2	

Centralizers	Scratchers

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110			0.00	23	23
1	Casing Joint	5 1/2	4.892	17.00	P-110			0.00	23	23
1	Landing Joint	5 1/2	4.892	17.00	P-110			0.00	23	23
1	Casing Hanger	5 1/2	4.892	17.00	P-110			1.87	23	25
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110			2.94	25	28
86	Casing Joint	5 1/2	4.892	17.00	P-110			3,471.87	28	3,500
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110			9.56	3,500	3,509
168	Casing Joint	5 1/2	4.892	17.00	P-110			6,724.20	3,509	10,234
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110			9.53	10,234	10,243
119	Casing Joint	5 1/2	4.892	17.00	P-110			4,790.53	10,243	15,034
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110			11.11	15,034	15,045
1	RSI Tool/Toe Sleeve	5 1/2	4.892	17.00	P-110			5.53	15,045	15,050
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110			10.69	15,050	15,061
1	Casing Joint	5 1/2	4.892	17.00	P-110			40.60	15,061	15,102
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110			10.00	15,102	15,112
1	Landing Collar	5 1/2	4.892	17.00	P-110			1.46	15,112	15,113
1	Casing Joint	5 1/2	4.892	17.00	P-110			40.54	15,113	15,154
1	Float Collar	5 1/2	4.892	17.00	P-110			1.29	15,154	15,155

Report Printed: 3/16/2015

Cement Summary

Production Casing Cement

Well Name	Lease	Field Name	Business Unit
PRODIGAL SUN 17-24-34 001H	Prodigal Sun 17-24-34	Red Hills North	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,564.00	3,589.00	3,589.00, 8/8/2014		

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
2	Casing Joint	5 1/2	4.892	17.00	P-110			79.59	15,155	15,234
1	Float Shoe	5 1/2	4.892	17.00	P-110			1.53	15,234	15,236

Production Casing Cement, Casing, 9/2/2014 12:30

Cementing Start Date	Cementing End Date	Wellbore
9/2/2014	9/2/2014	Original Hole

Evaluation Method	Cement Evaluation Results
Returns to Surface	No spacer or cement to surface

Comment

Perform cmt job as follows:
Pressure test lines to 5000 psi
Pump 10 bbls of dyed fresh water and 20 bbls of Tuned Spacer III
Mix and pump 860 sx (385 bbls) of lead at 11.3 ppg.
Mix and pump 1075 sx (343 bbls) of 2nd lead at 12.5 ppg.
Mix and pump 135 sx (62 bbls) of tail at 15 ppg.
Drop top plug and displace cmt w/21.8 bbls MSA and 330.7 BBLS fresh water (352.5 bbls displcement total).
Did not bump plug. Pump half of the shoe track volume: 1 bbls. (352.5 bbls displacement total).
Notified office. Decision made to check floats and complete job.
Bleed off pressure – floats held 2 bbls bleed back

1, 4,750.0-15,250.0ftKB

Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)	Top Plug?	Bottom Plug?
4,750.0	15,250.0	N	0.0	Y	N

Initial Pump Rate (bbl/min)	Final Pump Rate (bbl/min)	Avg Pump Rate (bbl/min)	Final Pump Pressure (psi)	Plug Bump Pressure (psi)
8.5	6	7.3	1,680.0	

Pipe Reciprocated?	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated?	Pipe RPM (rpm)
N			N	

Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	Drill Out Date

<typ>

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

Report Printed: 3/16/2015