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State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-41610	Pool Code	Pool Name Triste Draw; Bone Spring, East
Property Code	Property Name CARAVAN STATE UNIT	Well Number 6H
OGRID No. 025575	Operator Name YATES PETROLEUM CORPORATION	Elevation 3469

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	33	24 S	33 E		50	NORTH	1980	WEST	LEA

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
C	28	24 S	33 E		330	NORTH	1980	WEST	LEA
Dedicated Acres 160	Joint or Infill	Consolidation Code	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

<p>PROPOSED BOTTOM HOLE LOCATION Lat - N 32°11'41.89" Long - W 103°34'45.78" NMSPCE- N 435482.1 E 774559.7 (NAD-83)</p> <p>PROJECT AREA</p> <p>PRODUCING ZONE</p> <p>PENETRATION POINT 430' FSL & 1980' FWL</p> <p>SURFACE LOCATION Lat - N 32°10'52.40" Long - W 103°34'45.78" NMSPCE- N 430480.3 E 774594.5 (NAD-83)</p>	<p>N: 435802.5 E: 772577.3 (NAD83)</p> <p>N: 430533.5 E: 775255.9 (NAD83)</p> <p>N: 430551.4 E: 777894.0 (NAD83)</p> <p>N: 425245.4 E: 772650.7 (NAD83)</p>	<p>OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Cy Cowan</i> May 1/15/14 Signature Date</p> <p>Cy Cowan Printed Name</p> <p>cy@yatespetroleum.com Email Address</p> <p>SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>OCTOBER 18 2013 Date Surveyed</p> <p>Signature & Seal of Professional Surveyor</p> <p>Certificate No. 7977 Gory, L. Jones BASIN SURVEYS</p> <p>0' 500' 1000' 1500' 2000' SCALE: 1" = 1000' WO Num.: 29403</p>
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JAN 23 2014



Drilling Prognosis Report

CARAVAN STATE UNIT #6H

API/UTM 9900000246399999		County LEA	State NEW MEXICO	Property Sub		N/S Dist (ft) 50.0	N/S Ref FNL	E/W Dist (ft) 1,980.0	E/W Ref FWL
Ground Elevation (ft) 3,469.00	Current KB Elevation (ft) 3,494.00	Lease Number VB-0647		Surface Legal Location SEC 33/TWN 24S/RNG 33E/UNT C					
Directions To Well									
Wellbore - Original Hole - HORIZONTAL									
Wellbore Name Original Hole	Parent Wellbore	Bottom Hole Legal Location SEC 28/TWN 24S/RNG 33E/UNT C		NS Dist (ft) 330.0	NS Flag FNL	EW Dist (ft) 1,980.0	EW Flag FWL	Hole Direction HORIZONTAL	Kick Off Method Steerable Motor
Wellbore Sections									
Section	Conductor	Size (in) 26	Depth Top Proposed (ftKB) 25.0		Depth Btm Proposed (ftKB) 65.0				
Section	Surface	Size (in) 17 1/2	Depth Top Proposed (ftKB) 65.0		Depth Btm Proposed (ftKB) 1,190.0				
Section	Intermediate	Size (in) 12 1/4	Depth Top Proposed (ftKB) 1,190.0		Depth Btm Proposed (ftKB) 5,200.0				
Section	Production 1	Size (in) 8 3/4	Depth Top Proposed (ftKB) 5,200.0		Depth Btm Proposed (ftKB) 11,350.0				
Section	Production 2	Size (in) 8 1/2	Depth Top Proposed (ftKB) 11,350.0		Depth Btm Proposed (ftKB) 15,872.0				
Formations									
Formation Name									Prog Top MD (ftKB)
RUSTLER									1,165.00
SALADO									1,520.00
BOS									4,845.00
DELAWARE									5,095.00
BELL CANYON									5,125.00
CHERRY CANYON									6,110.00
BRUSHY CANYON									7,910.00
BONE SPRING									9,110.00
UPPER AVALON									9,185.00
LOWER AVALON									9,520.00
1ST BONE SPRING SS									10,080.00
2ND BONE SPRINGS SS									10,701.00
2ND BONE SPRING SS TARGET									11,350.00
EOL									15,872.00
Job Description									
Job Category New Drilling	Primary Job Type New Well		Primary Wellbore Affected Original Hole		Target Formation 2ND BONE SPRINGS SAN		Tgt Dpth - MD (ftKB) 15,872.0	Tgt Dpth - TVD (ftKB) 11,055.0	
AFENumber	Total AFE Amount		Status 1 PROPOSED						
Job Contacts									
Title	Contact Name		Office		Phone Home		Mobile		
Mud Program									
Depth Start (ftKB) 65.0	Depth End (ftKB) 1,190.0	Mud Type Fresh Water	Weight ... 8.60	Weight ... 9.20	Funnel Viscosity M... 32	Funnel Viscosity M... 34	Wtr Los... 	Oil Perc... 	Chlorides Min (mg/L)
Comment									
Depth Start (ftKB) 1,190.0	Depth End (ftKB) 5,200.0	Mud Type Brine Water	Weight ... 10.00	Weight ... 10.20	Funnel Viscosity M... 28	Funnel Viscosity M... 29	Wtr Los... 	Oil Perc... 	Chlorides Min (mg/L)
Comment									
Depth Start (ftKB) 5,200.0	Depth End (ftKB) 15,872.0	Mud Type Cut Brine	Weight ... 8.80	Weight ... 9.20	Funnel Viscosity M... 28	Funnel Viscosity M... 32	Wtr Los... 	Oil Perc... 	Chlorides Min (mg/L)
Comment									



Drilling Prognosis Report

CARAVAN STATE UNIT #6H

Instructions

Samples:

30' Samples to 5200'. 10' samples 5200' to TD

Logging:

SCH: PLATFORM EXPRESS-CURVE
CNL/LDT/NGT-CURVE-INTERM CSG
CNL/GR-CURVE-SURFACE CSG
DLL-MSFL-CURVE-SURFACE CSG
HORIZONTAL-MWD-GR-HORIZONTAL

Mudlogging:

2000' to TD

Mud Level Monitoring:

After surface casing is set an electronic PVT system will be installed as our primary mud level monitoring system. A secondary system will also be implemented as to ensure the PVT system is functioning properly. The secondary system will be comprised of the derrick hand checking the fluid level in the pits periodically using a nut on the end of a rope hanging just above the fluid level in the pit.

KEEP LOCATION CLEAN, FILL OUT YPC SAFETY BOOK WEEKLY. NOTIFY BLM OF BUILDING LOCATION, SPUD, RESUME DRILLING, CEMENTING CASING, BOP TEST, ETC.

USE ONLY VENDORS ON YPC'S APPROVED VENDORS LIST FOR THE SERVICES YPC IS RESPONSIBLE FOR.

PRESSURE CONTROL EQUIPMENT: A 3000 psi system will be nipped up and tested on 13 3/8" casing and a 5M on 9 5/8" casing.

MAXIMUM ANTICIPATED BHP:

0'-1195' 572 PSI
1195'-5200' 2758 PSI
5200'-11090' 5305 PSI

H2S is not anticipated.

Well will be drilled to 10597'. Well will then be kicked off at approx. 10597' and directionally drilled at 12 degrees per 100' with an 8 3/4" hole to 11350' MD (11075' TVD) where hole size will then be reduced to 8 1/2" and drilled to 15872' MD (11055' TVD) where 5 1/2" casing will be set and cemented 500' into previous casing string. Production casing will be cemented in two stages with a DV/Packer stage tool at approx. 7500' (cement volumes will be adjusted per tool placement). Penetration point of the producing zone will be encountered at 430' FSL and 1980' FWL, 28-24S-33E. Deepest TVD is 11075' in the lateral.

CASING DESIGN FACTORS:

BURST 1.0 TENSILE 1.8 COLLAPSE 1.125

EOC= 11075' TVD

EOL= 11055' TVD

Casing - Conductor Casing - 65.0 - Wellbore - Original Hole

Comment

String Nominal OD (in)			Weight/Length (lbs/ft)		Set Depth (ftKB)			Wellbore					
20			94.00		65.0			Original Hole					
OD (in)	Wt (lbs/ft)	Grade	Casing Threads	Top (ftKB)	Bottom (ftKB)	Length (ft)	P (collapse) (psi)	Burst Pres (psi)	Max Tensile (1...)	ID (in)	Drift (in)	Mk-up Tq (ft-lb)	Max Tq (ft-lbs)
20	94.00	H-40	ST&C	25.0	65.0	40.00	520.0	1,530.0	581	19.124	18.936		

Casing - Surface Casing - 1,190.0 - Wellbore - Original Hole

Comment

String Nominal OD (in)			Weight/Length (lbs/ft)		Set Depth (ftKB)				Wellbore				
13 3/8			48.00		1,190.0				Original Hole				
OD (in)	Wt (lbs/ft)	Grade	Casing Threads	Top (ftKB)	Bottom (ftKB)	Length (ft)	P (collapse) (psi)	Burst Pres (psi)	Max Tensile (1...)	ID (in)	Drift (in)	Mk-up Tq (ft-lb)	Max Tq (ft-lb)
13 3/8	48.00	J-55	ST&C	0.0	1,190.0	1,190.00	740.0	2,370.0	433	12.715	12.559	4,330	5,410

Casing - Intermediate Casing - 5,200.0 - Wellbore - Original Hole

Comment

String Nominal OD (in)			Weight/Length (lbs/ft)			Set Depth (ftKB)			Wellbore				
9 5/8			36.00			5,200.0			Original Hole				
OD (in)	WT (lbs/ft)	Grade	Casing Threads	Top (ftKB)	Bottom (ftKB)	Length (ft)	P (collapse) (psi)	Burst Pres (psi)	Max Tensile (1...)	ID (in)	Drift (in)	Mk-up Tq (ft-lb)	Max Tq (ft-lbs)
9 5/8	40.00	J-55	LT&C	0.0	80.0	80.00	2,570.0	3,950.0	520	8.835	8.750	5,200	6,500
9 5/8	36.00	J-55	LT&C	80.0	3,200.0	3,120.00	2,020.0	3,520.0	453	8.921	8.765	4,530	5,660
9 5/8	40.00	J-55	LT&C	3,200.0	4,200.0	1,000.00	2,570.0	3,950.0	520	8.835	8.750	5,200	6,500
9 5/8	40.00	HCK-55	LT&C	4,200.0	5,200.0	1,000.00	4,230.0	3,950.0	604	8.835	8.750	6,940	8,680

Casing - Production Casing - 15,872.0 - Wellbore - Original Hole

Comment

String Nominal OD (in)			Weight/Length (lbs/ft)		Set Depth (ftKB)				Wellbore				
5 1/2			17.00		15,872.0				Original Hole				
OD (in)	WT (lbs/ft)	Grade	Casing Threads	Top (ftKB)	Bottom (ftKB)	Length (ft)	P (collapse) (psi)	Burst Pres (psi)	Max Tensile (1...)	ID (in)	Drift (in)	Mk-up Tq (ft-lb)	Max Tq (ft-lb)
5 1/2	17.00	P-110	Buttress Thread	0.0	15,872.0	15,872.00	7,480.0	10,640.0	568	4.892	4.767		

Cement Job - Intermediate Casing, 5,200.0ftKB, Proposed: Yes

Description		Proposed?		String		Wellbore	
Intermediate Cement		Yes		Intermediate Casing, 5,200.0ftKB, Proposed: Yes		Original Hole	
Stage Number	Description	Top (ftKB)		Bottom (ftKB)		Wellbore	
	Intermediate Cement	25.0		5,200.0		Original Hole	
Fluid Type	Amount (sacks)	Class		Weight (lb/gal)		Yield (ft ³ /sack)	
Lead	1,490	35:65:6PzC		12.50		2.00	
Fluid Type	Amount (sacks)	Class		Weight (lb/gal)		Yield (ft ³ /sack)	
Tail	210	50/50 PozC		14.20		1.34	
						Mix H2O Ratio (gal/sack)	
						11.00	
						6.20	

Cement Job - Surface Casing, 1,190.0ftKB, Proposed: Yes

Description		Proposed?		String		Wellbore	
Surface Cement		Yes		Surface Casing, 1,190.0ftKB, Proposed: Yes		Original Hole	
Stage Number	Description	Top (ftKB)		Bottom (ftKB)		Wellbore	
	Surface Cement	25.0		1,190.0		Original Hole	
Fluid Type	Amount (sacks)	Class		Weight (lb/gal)		Yield (ft ³ /sack)	
Lead	695	35:65:6PzC		12.50		2.00	
						Mix H2O Ratio (gal/sack)	
						11.00	