

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

10cm
MAR 22 2010

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK BUREAU OF LAND MANAGEMENT
Farmington Field Office

1a. Type of Work DRILL	BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS	5. Lease Number SF-078885 Unit Reporting Number NMNM-78383D 6. If Indian, All. or Tribe
1b. Type of Well GAS		
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name Canyon Largo Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name	9. Well Number 292E RCVD OCT 25 '10 OIL CONS. DIV.
4. Location of Well Unit I (NESE), 1640' FSL & 335' FEL Latitude: 36.411529° N (NAD83) Longitude: 107.446910° W	10. Field, Pool, Wildcat Basin Dakota DIST. 3 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 10, T25N, R6W API # 30-039-30951	
14. Distance in Miles from Nearest Town 65 miles / Bloomfield	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 335'		
16. Acres in Lease 2,403.320	17. Acres Assigned to Well 320.00 E/2 - DK	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 2051' from Canyon Largo Unit 292		
19. Proposed Depth 7281'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6671' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	<u>3/10/2010</u> Date	

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 10/19/10

Archaeological Report attached

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes 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 presentations as to any matter within its jurisdiction.

Example Master Plan Type 4 Bond Numbers NMB-000015 and NMB-000089

DEC 02 2010

NMOCB

DISTRICT 1
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 West Grand Avenue, Artesia, N.H. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

MAR 09 2010

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 30951		² Pool Code 71599	³ Pool Name BASIN DAKOTA
⁴ Property Code 6886	⁵ Property Name CANYON LARGO UNIT		⁶ Well Number 292E
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP		⁹ Elevation 6671'

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
1	10	25-N	6-W		1640	SOUTH	335	EAST	RIO ARRIBA

" 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
I									
¹² Dedicated Acres DK 320.00 ACRES E/2			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

16

USA
SF-078885-A

FND BLM
"1965" BC

10

LATITUDE: 36°24.6911' N
LONGITUDE: 107°26.7784' W
NAD27

LATITUDE: 36.411529° N
LONGITUDE: 107.446910° W
NAD83

USA SF-078885

335'

1640'

S89°14'02"W
26.40'

W.C.
FND BLM
"1965" BC

CALC. PT.

S89°14'51"W 2627.60'

FND BLM
"1965" BC

17 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 an interest or is a mineral interest, or is to be a pooling agreement or a compulsory pooling order heretofore entered by the division.

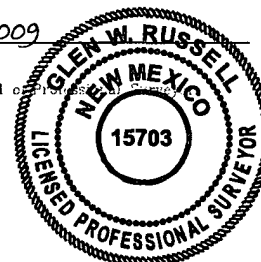
Signature Crystal Tafoya 3/8/10
Printed Name Crystal Tafoya 3/8/10

18 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.

JULY 30, 2009
Date of Survey

Signature and Seal of Professional Engineer



GLEN W. RUSSELL
Certificate Number

15703

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

CANYON LARGO UNIT 292E

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9051				AFE \$: 1,203,827.68	
Field Name: SAN JUAN		Rig: XXX 2011 Holding Rig #1		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer:		Phone:		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Surface Datum Code NAD 27 Straight Hole							
Latitude: 36.411518		Longitude: -107.446306		X:	Y:	Section: 10	Range: 006W
Footage X: 335 FEL		Footage Y: 1640 FSL		Elevation: 6671 (FT)		Township: 025N	
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2011		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6687 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	320	6367	☐			320' 8 5/8" 24 ppf, J-55, STC casing. Cement with 226 cuft. Circulate cement to surface.	
NACIMIENTO	1009	5678	☐			Surface formation is San Jose	
OJO ALAMO	2097	4590	☐				
KIRTLAND	2275	4412	☐				
FRUITLAND	2377	4310	☐			Possible Gas	
PICTURED CLIFFS	2747	3940	☐	400			
LEWIS	2818	3869	☐				
HUERFANITO BENTONITE	3138	3549	☐				
CHACRA	3597	3090	☐				
MASSIVE CLIFF HOUSE	4361	2326	☐			Cliff House is wet	
MENEFEE	4399	2288	☐				
POINT LOOKOUT	4961	1726	☐			GAS	
MANCOS	5272	1415	☐				
UPPER GALLUP	5986	701	☐				
GREENHORN	6885	-198	☐				
GRANEROS	6935	-248	☐				
TWO WELLS	6993	-306	☐	3075		Gas	
PAGUATE	7033	-346	☐				
UPPER CUBERO	7079	-392	☐				
LOWER CUBERO	7111	-424	☐				
OAK CANYON	7134	-447	☐			OKCN sand is well developed in some area wells & matches better production.	
ENCINAL	7185	-498	☐			Bottom perf estimated 30' into Encinal only if separation from BRCN.	
BURRO CANYON	7215	-528	☐			Burro Canyon is likely wet in this area.	
MORRISON	7281	-594	☐			TD at top of Morrison unless unusually strong gas show on mud log.	
Total Depth	7281	-594	☐			7 7/8" hole, 4-1/2" 11.6 ppf, N-80 LTC casing. Cement with 2142 cuft. Circulate cement to surface.	

PROJECT PROPOSAL - New Drill / Sidetrack

CANYON LARGO UNIT 292E

DEVELOPMENT

Reference Wells:		
Reference Type	Well Name	Comments
Production	Canyon Largo 278	SW11-25-6
Production	Canyon Largo 409	NE15-25-6
Production	Canyon Largo 292	NE10-25-6

Logging Program:			
Intermediate Logs:	☐ Log only if show	☐ GR/ILD	☐ Triple Combo

TD Logs:	☐ Triple Combo	☐ Dipmeter	☐ RFT	☐ Sonic	☐ VSP	☐ TDT	☒ Other
No open hole logs required. Mud log from 100' above Greenhorn to TD to monitor gas shows lower in section - loggers will call TD.							

Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

RECEIVED

SEP 23 2010

Farmington Field Office
Bureau of Land Management

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. **Type of Well**
GAS
2. **Name of Operator**
BURLINGTON
RESOURCES OIL & GAS COMPANY LP
3. **Address & Phone No. of Operator**
PO Box 4289, Farmington, NM 87499 (505) 326-9700
4. **Location of Well, Footage, Sec., T, R, M**
Surface: Unit J (NWSE), 1860' FSL & 1495' FEL, Section 10, T25N, R6W, NMPM
BHL: Unit I (NESE), 1705' FSL & 490' FEL, Section 10, T25N, R6W, NMPM
5. **Lease Number**
SF-078885
6. **If Indian, All. or Tribe Name**
7. **Unit Agreement Name**
8. **Well Name & Number**
Canyon Largo Unit 292E
9. **API Well No.**
30-039- 30951
10. **Field and Pool**
Basin Dakota
11. **County and State**
Rio Arriba, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission	Type of Action			
☒ Notice of Intent	☐ Abandonment	☐ Change of Plans	☒ Other -	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction		
☐ Final Abandonment	☐ Plugging	☐ Non-Routine Fracturing		
	☐ Casing Repair	☐ Water Shut off		
	☐ Altering Casing	☐ Conversion to Injection		

13. Describe Proposed or Completed Operations

Burlington Resources requests permission to change the Master Drilling Type of the subject well from Type 4 to Type 3. The change will include an intermediate casing and an air-drilled production casing. New project proposal, directional drill plan and plot is attached.

RCVD OCT 25 '10

OIL CONS. DIV.

DIST. 3

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

Signed Dollie L. Busse Dollie L. Busse Title Staff Regulatory Technician Date 9-23-10

(This space for Federal or State Office use)
APPROVED BY [Signature] Title AFM Date 10/19/10
CONDITION OF APPROVAL, if any:

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

NMOCD

PC

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

DISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87506

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30951		*Pool Code 71599	*Pool Name BASIN DAKOTA
*Property Code 6886	*Property Name CANYON LARGO UNIT		*Well Number 292E
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP		*Elevation 6716'

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
J	10	25-N	6-W		1860	SOUTH	1495	EAST	RIO ARRIBA

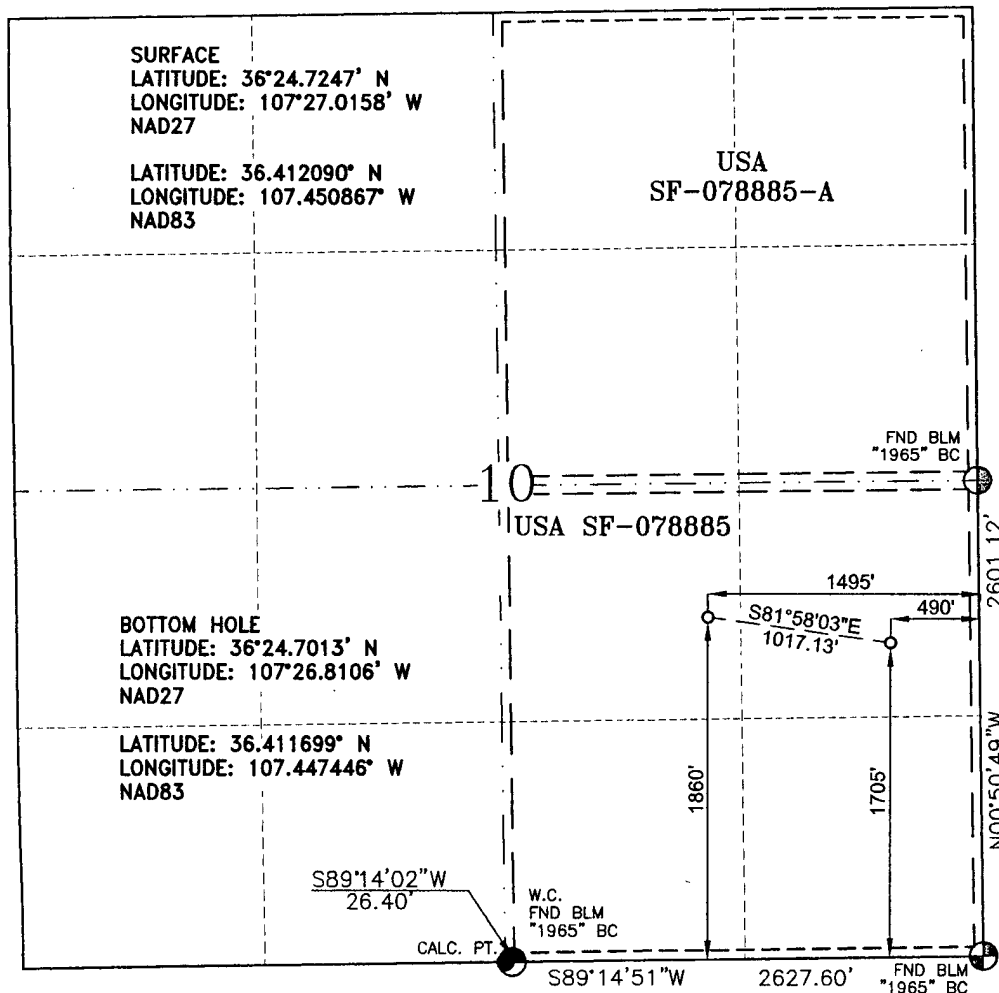
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the		Feet from the	East/West line	County
1	10	25-N	6-W		1705	SOUTH	490	EAST	RIO ARRIBA

¹³ Dedicated Acres DK 320.00 ACRES E/2	¹⁴ Joint or Infill	¹⁵ Consolidation Code	¹⁶ Order No.
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OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

18



17 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 a working interest, or to a pooling agreement or a compulsory pooling order heretofore entered by the Division.

Brandie Blakley
Signature
Brandie Blakley
Printed Name

18 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.

JUNE 1, 2010
Date of Survey

Signature and Seal



GLEN W. RUSSELL

Certificate Number 15703

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

CANYON LARGO UNIT 292E

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9051				AFE \$: 1,403,860.29	
Field Name: SAN JUAN		Rig: Aztec Rig 920		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer:		Phone:		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Surface		Datum Code: NAD 27				Directional:	
Latitude: 36.412079	Longitude: -107.450263	X:	Y:	Section: 10	Range: 006W		
Footage X: 1495 FEL	Footage Y: 1860 FSL	Elevation: 6716	(FT)	Township: 025N			
Tolerance:							
Location: Bottom Hole		Datum Code: NAD 27				Directional:	
Latitude: 36.411688	Longitude: -107.446842	X:	Y:	Section: 10	Range: 006W		
Footage X: 490 FEL	Footage Y: 1705 FSL	Elevation:	(FT)	Township: 025N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2011		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6731		Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	230	6501		☐			12-1/4 hole. 230' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	1053	5678		☐			
OJO ALAMO	2141	4590		☐			
KIRTLAND	2319	4412		☐			
FRUITLAND	2421	4310		☐			Possible Gas
PICTURED CLIFFS	2791	3940		☐			
LEWIS	2862	3869		☐			
HUERFANITO BENTONITE	3182	3549		☐			
CHACRA	3641	3090		☐			
MASSIVE CLIFF HOUSE	4405	2326		☐	400		Gas; Cliff House is wet
MENEFEE	4443	2288		☐			
Intermediate Casing	4593	2138		☐		97	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1089 cuft. Circulate cement to surface.
POINT LOOKOUT	5005	1726		☐			
MANCOS	5316	1415		☐			
UPPER GALLUP	6030	701		☐			
GREENHORN	6929	-198		☐			
GRANEROS	6979	-248		☐			
TWO WELLS	7037	-306		☐	3075		Gas
PAGUATE	7077	-346		☐			
UPPER CUBERO	7123	-392		☐			
LOWER CUBERO	7155	-424		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

CANYON LARGO UNIT 292E

DEVELOPMENT

OAK CANYON	7178	-447	☐		OKCN sand is well developed in some area wells & matches better production.
ENCINAL	7229	-498	☐		Bottom perf estimated 30' into Encinal only if separation from BRCN.
Total Depth	7261	-530	☐	180	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 368 cuft. Circulate cement a minimum of 100' inside the previous casing string.
BURRO CANYON	7261	-530	☐		TD - T/BRCN Burro Canyon is likely wet in this area.
MORRISON	7325	-594	☐		

Reference Wells:		
Reference Type	Well Name	Comments
Production	Canyon Largo 278	SW11-25-6
Production	Canyon Largo 409	NE15-25-6
Production	Canyon Largo 292	NE10-25-6

Logging Program:		
Intermediate Logs:	☐ Log only if show	☐ GR/ILD ☐ Triple Combo

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
----------	---

No open hole logs required. Mudlog from 100' above top of GLLP to TD - mudlogger will call TD.

Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

REFERENCE INFORMATION

RKB @ 6731.0ft (AWS RIGS)
Ground Elevation 6716.0
Reference Lat: 36° 24' 43.482 N
Reference Long: 107° 27' 0.948 W

Project: San Juan Basin - New Mexico Well
Site: Other Named Wells
Well: Canyon Largo #292E
Wellbore: Principal Wellbore
Design: Plan #1



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1475.2	34.66	98.03	1406.1	-47.3	335.5	3.00	98.03	338.9	
4	2070.8	34.66	98.03	1895.9	-94.6	670.9	0.00	0.00	677.5	
5	3226.0	0.00	0.00	2982.0	-142.0	1006.4	3.00	180.00	1016.4	Canyon Largo #292E - VACP
6	4837.0	0.00	0.00	4593.0	-142.0	1006.4	0.00	0.00	1016.4	Canyon Largo #292E - ICP
7	7505.0	0.00	0.00	7261.0	-142.0	1006.4	0.00	0.00	1016.4	Canyon Largo #292E - PCP

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1053.0	1072.3	Nacimiento
2141.0	2355.1	Ojo Alamo
2319.0	2548.9	Kirtland
2421.0	2656.6	Fruitland
2791.0	3034.7	Pictured Cliffs
2862.0	3105.9	Lewis
3182.0	3426.0	Huerfano Bentonite
3641.0	3885.0	Chacra
4405.0	4649.0	Massive Cliffhouse
4443.0	4687.0	Menefee
5005.0	5249.0	Point Lookout
5316.0	5560.0	Mancos
6030.0	6274.0	Upper Gallup
6929.0	7173.0	Greenhorn
6979.0	7223.0	Graneros
7037.0	7281.0	Two Wells
7077.0	7321.0	Paguate
7123.0	7367.0	Upper Cubero
7155.0	7399.0	Lower Cubero
7178.0	7422.0	Oak Canyon
7229.0	7473.0	Encinal
7261.0	7505.0	Total Depth

