

API No. <u>42-475-37465</u>	RAILROAD COMMISSION OF TEXAS OIL & GAS DIVISION				FORM W-1 07/2004	
Drilling Permit # <u>836656</u>	APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER				Permit Status: Approved	
SWR Exception Case/Docket No. _____		<i>This facsimile W-1 was generated electronically from data submitted to the RRC. A certification of the automated data is available in the RRC's Austin office.</i>				
1. RRC Operator No. 003125	2. Operator's Name (as shown on form P-5, Organization Report) ABRAXAS PETROLEUM CORPORATION			3. Operator Address (include street, city, state, zip): 18803 MEISNER DR SAN ANTONIO, TX 78258-0000		
4. Lease Name MESQUITE 37			5. Well No. 102H			
GENERAL INFORMATION						
6. Purpose of filing (mark ALL appropriate boxes): <input checked="" type="checkbox"/> New Drill <input type="checkbox"/> Recompletion <input type="checkbox"/> Reclass <input type="checkbox"/> Field Transfer <input type="checkbox"/> Re-Enter <input checked="" type="checkbox"/> Amended <input type="checkbox"/> Amended as Drilled (BHL) (Also File Form W-1D)						
7. Wellbore Profile (mark ALL appropriate boxes): <input type="checkbox"/> Vertical <input checked="" type="checkbox"/> Horizontal (Also File Form W-1H) <input type="checkbox"/> Directional (Also File Form W-1D) <input type="checkbox"/> Sidetrack						
8. Total Depth 10900	9. Do you have the right to develop the minerals under any right-of-way ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
SURFACE LOCATION AND ACREAGE INFORMATION						
11. RRC District No. 08	12. County WARD		13. Surface Location <input checked="" type="checkbox"/> Land <input type="checkbox"/> Bay/Estuary <input type="checkbox"/> Inland Waterway <input type="checkbox"/> Offshore			
14. This well is to be located <u>2.98</u> miles in a <u>SW</u> direction from <u>PYOTE</u> which is the nearest town in the county of the well site.						
15. Section 37	16. Block 16	17. Survey UL		18. Abstract No. A-U37	19. Distance to nearest lease line: 200 ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: 640
21. Lease Perpendiculars: <u>2625</u> ft from the <u>SOUTH</u> line and <u>289</u> ft from the <u>WEST</u> line.						
22. Survey Perpendiculars: <u>2625</u> ft from the <u>SOUTH</u> line and <u>289</u> ft from the <u>WEST</u> line.						
23. Is this a pooled unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		24. Unitization Docket No:		25. Are you applying for Substandard Acreage Field? <input type="checkbox"/> Yes (attach Form W-1A) <input checked="" type="checkbox"/> No		
FIELD INFORMATION List all fields of anticipated completion including Wildcat. List one zone per line.						
26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)		29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir
08	80544500	SANDBAR (BONE SPRING)		Oil Well	10900	0.00
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)						
Remarks [FILER Feb 27, 2018 1:42 PM]: Amending field and TVD				Certificate: I certify that information stated in this application is true and complete, to the best of my knowledge. <u>Scarlet Holguin, Regulatory Clerk</u> <u>Feb 28, 2018</u> Name of filer Date submitted <u>(210)7579844</u> <u>sholguin@abraxaspetroleum.com</u> Phone E-mail Address (OPTIONAL)		
RRC Use Only Data Validation Time Stamp: Mar 1, 2018 3:34 PM('As Approved' Version)						

**RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION**

Form W-1H 07/2004
Supplemental Horizontal Well Information

Permit Status: **Approved**
The RRC has not approved this application. Duplication or distribution of information is at the user's own risk.

APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER

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Permit # **836656**
Approved Date: **Mar 01, 2018**

1. RRC Operator No. 003125	2. Operator's Name (exactly as shown on form P-5, Organization Report) ABRAXAS PETROLEUM CORPORATION	3. Lease Name MESQUITE 37	4. Well No. 102H
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Lateral Drainhole Location Information

5. Field as shown on Form W-1 **SANDBAR (BONE SPRING) (Field # 80544500, RRC District 08)**

6. Section 37	7. Block 16	8. Survey UL / U37	9. Abstract	10. County of BHL WARD
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11. Terminus Lease Line Perpendiculars 2310 ft. from the SOUTH line. and 200 ft. from the EAST line
12. Terminus Survey Line Perpendiculars 2310 ft. from the SOUTH line. and 200 ft. from the EAST line
13. Penetration Point Lease Line Perpendiculars 2310 ft. from the SOUTH (SEC 33) line. and 195 ft. from the EAST (SEC 33) line

**RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION
SWR #13 Formation Data**

WARD (475) County

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
RUSTLER	1,700	1,700		1	12/17/2013
YATES	2,000	2,800		2	12/17/2013
SEVEN RIVERS	2,375	2,375		3	12/17/2013
QUEEN	2,200	3,200		4	12/17/2013
GLORIETA	3,900	4,000		5	12/17/2013
SAN ANDRES	2,000	4,500	high flows, H2S, corrosive	6	12/17/2013
HOLT	4,600	4,800		7	12/17/2013
CLEARFORK	4,500	5,000		8	12/17/2013
DELAWARE	2,300	5,000		9	12/17/2013
TUBB	4,600	5,300		10	12/17/2013
WICHITA ALBANY	6,000	6,200		11	12/17/2013
CHERRY CANYON	4,800	7,800		12	12/17/2013
WADDELL	7,600	9,700		13	12/17/2013
BONE SPRINGS	4,700	9,800		14	12/17/2013
WOLFCAMP	6,000	12,750		15	12/17/2013
MONTOYA	14,500	14,500		16	12/17/2013
PENNSYLVANIAN	7,500	14,900		17	12/17/2013
ATOKA	12,000	15,000		18	12/17/2013
FUSSELMAN	6,400	17,500		19	12/17/2013
DEVONIAN	6,200	17,800		20	12/17/2013
ELLENBURGER	7,900	20,800		21	12/17/2013

The above list may not be all inclusive, and may also include formations that do not intersect all wellbores. Formation "TOP" information listed reflects an estimated range based on geologic variances across the county. To clarify, the "Deep Top" is not the bottom of the formation; it is the deepest depth at which the "TOP" of the formation has been or might be encountered. This is a dynamic list subject to updates and revisions. It is the operator's responsibility to make sure that at the time of spudding the well the most current list is being referenced. Refer to the RRC website at the following address for the most recent information.
<http://www.rrc.texas.gov/oil-gas/compliance-enforcement/rule-13-geologic-formation-info>

GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date Issued:	26 February 2018	GAU Number:	190072
Attention:	ABRAXAS PETROLEUM 18803 MEISNER DR SAN ANTONIO, TX 78258	API Number:	
Operator No.:	003125	County:	WARD
		Lease Name:	MESQUITE 37
		Lease Number:	
		Well Number:	102H
		Total Vertical Depth:	11500
		Latitude:	31.491749
		Longitude:	-103.130603
		Datum:	NAD27

Purpose: New Drill
Location: Survey-UL; Block-16; Section-37

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Railroad Commission of Texas recommends:

The interval from the land surface to a depth of 1400 feet, and the Rustler from 1800 to 2200 feet must be protected.

This recommendation is applicable to all wells within a radius of 200 feet of this location.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

This determination is based on information provided when the application was submitted on 02/20/2018. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

Groundwater Advisory Unit, Oil and Gas Division

Form GW-2 P.O. Box 12967 Austin, Texas 78771-2967 512-463-2741 Internet address: www.rrc.texas.gov
 Rev. 02/2014

