

Form 3160-5
(July 1989)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
NEW MEXICO 88240

CONTACT RECEIVING
OFFICE FOR NUMBER
CHARGE REQUIRE
(Other instructions on r. 750
side)

BLM Roswell District
Modified Form No.
NM060-3160-4

4971

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐		7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR MERIDIAN OIL INC.		8. FARM OR LEASE NAME FEDERAL AW
3. ADDRESS OF OPERATOR P.O. Box 51810, Midland, TX 79710-1810	3a. AREA CODE & PHONE NO. 915-688-6800	9. WELL NO. # 2 BATTERY
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SEC. 26, T-19-S, R-32-E SW/SE 330' FSL & 2310' FEL		10. FIELD AND POOL, OR WILDCAT EAST LUSK DELAWARE
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 26, T-19-S, R-32-E
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH LEA
		13. STATE NM

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF ☐	PULL OR ALTER CASING ☐	WATER SHUT-OFF ☐	REPAIRING WELL ☐
FRACTURE TREAT ☐	MULTIPLE COMPLETE ☐	FRACTURE TREATMENT ☐	ALTERING CASING ☐
SHOOT OR ACIDIZE ☐	ABANDON* ☐	SHOOTING OR ACIDIZING ☐	ABANDONMENT* ☐
REPAIR WELL ☐	CHANGE PLANS ☐	(Other) METHOD OF WATER DISPOSAL ☒	
(Other) ☐		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

METHOD OF WATER DISPOSAL (NTL-2B)

- A. PRODUCTION OUT OF DELAWARE ZONE
- B. 8 BOWPD/243.20 BOWPM IS PRODUCED
- C. CURRENT WATER ANALYSIS ATTACHED
- D. WATER IS STORED IN A 500 BBL FIBERGLASS TANK
- E. WATER IS HAULED BY I & W INC.
BOX 98
LOCO HILL, NEW MEXICO 88255
505-746-4214, 677-2111

F. WATER IS HAULED OFF BY A LOCAL TRUCKING COMPANY. WE DO NOT HAVE OUR OWN DISPOSAL FACILITY.

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

SIGNED

TITLE

PRODUCTION ASSISTANT

DATE

6/14/93

(This space for Federal or State office use)

(ORIG. SGD.) JOE G. LARA

Production Assistant

JUN 25 1993

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

***See Instructions on Reverse Side**

TRETOLITE

Chemicals and Services

16010 Barker's Point Lane • Houston, Texas 77079
713 558-5200 • Telex: 4820346 • FAX: 713 559-4737

Reply to: P.O. Box FF
Artesia, New Mexico 88210
(505) 746-3588 Phone
(505) 746-3580 Fax

WATER ANALYSIS REPORT

Company : MERIDIAN OIL
Address : ARTESIA, NEW MEXICO
Lease : AW BATTERY
Well : #2
Sample Pt. : WATER TNAK

Date : 06/11/93
Date Sampled : 06/11/93
Analysis No. : 214

ANALYSIS		mg/L	* meq/L
-----		-----	-----
1.	pH	6.3	
2.	H ₂ S	NEGATIVE	
3.	Specific Gravity	1.162	
4.	Total Dissolved Solids	242481.7	
5.	Suspended Solids	NR	
6.	Dissolved Oxygen	NR	
7.	Dissolved CO ₂	300 PPM	
8.	Oil In Water	NR	
9.	Phenolphthalein Alkalinity (CaCO ₃)		
10.	Methyl Orange Alkalinity (CaCO ₃)		
11.	Bicarbonate	HCO ₃ 97.6	HCO ₃ 1.6
12.	Chloride	Cl 151230.0	Cl 4266.0
13.	Sulfate	SO ₄ 675.0	SO ₄ 14.1
14.	Calcium	Ca 26000.0	Ca 1297.4
15.	Magnesium	Mg 4632.1	Mg 381.1
16.	Sodium (calculated)	Na 59847.0	Na 2603.2
17.	Iron	Fe NR	
18.	Barium	Ba NR	
19.	Strontium	Sr NR	
20.	Total Hardness (CaCO ₃)	84000.0	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound Equiv wt X meq/L = mg/L		
+-----+		-----		
1297	*Ca <----- *HCO ₃	2	Ca(HCO ₃) ₂	81.0 1.6 130
-----	/----->	-----	CaSO ₄	68.1 14.1 957
381	*Mg -----> *SO ₄	14	CaCl ₂	55.5 1281.7 71124
-----	<-----/	-----	Mg(HCO ₃) ₂	73.2
2603	*Na -----> *Cl	4266	MgSO ₄	60.2
+-----+		-----		
Saturation Values Dist. Water 20 C				
CaCO ₃		13 mg/L	MgCl ₂	47.6 381.1 18142
CaSO ₄ * 2H ₂ O		2090 mg/L	NaHCO ₃	84.0
BaSO ₄		2.4 mg/L	Na ₂ SO ₄	71.0
			NaCl	58.4 2603.2 152130

REMARKS:

----- S. HOLLINGER / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
TOM WILTON

SCALE TENDENCY REPORT

Company	: MERIDIAN OIL	Date	: 06/11/93
Address	: ARTESIA, NEW MEXICO	Date Sampled	: 06/11/93
Lease	: AW BATTERY	Analysis No.	: 214
Well	: #2	Analyst	: TOM WILTON
Sample Pt.	: WATER TNAK		

STABILITY INDEX CALCULATIONS
(Stiff-Davis Method)
CaCO₃ Scaling Tendency

S.I. =	0.7	at	60 deg. F	or	16 deg. C
S.I. =	0.7	at	80 deg. F	or	27 deg. C
S.I. =	0.7	at	100 deg. F	or	38 deg. C
S.I. =	0.7	at	120 deg. F	or	49 deg. C
S.I. =	0.7	at	140 deg. F	or	60 deg. C

CALCIUM SULFATE SCALING TENDENCY CALCULATIONS
(Skillman-McDonald-Stiff Method)
Calcium Sulfate

S =	528	at	60 deg. F	or	16 deg C
S =	588	at	80 deg. F	or	27 deg C
S =	625	at	100 deg. F	or	38 deg C
S =	641	at	120 deg. F	or	49 deg C
S =	652	at	140 deg. F	or	60 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
TOM WILTON