

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
MERIDIAN OIL

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M
990'FSL, 990'FWL, Sec 10, T-28-N, R-10-W, NMPM

5. Lease Number
SF-080724

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Zachry #11

9. API Well No.

10. Field and Pool
Aztec PC/
Basin Ft Coal

11. County and State
San Juan Co, NM

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

Type of Submission	Type of Action
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other -
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Conversion to Injectio

13. Describe Proposed or Completed Operations

It is intended to add and complete by perforating and fracture stimulation the Fruitland Coal formation to this wellbore. Production from the Pictured Cliffs and Fruitland Coal will be commingled. Application is being made to the NMOCD for commingling.

RECEIVED
JAN 21 1994
OIL CON. DIV
DIST. 3

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

Signed [Signature] (SD) Title Regulatory Affairs Date 1/15/93

(This space for Federal or State Office use)

APPROVED BY [Signature] Title DISTRICT MANAGER Date 1/15/93

CONDITION OF APPROVAL, if any:

NMOCD

Schedule to Appraisals-
District Office:
State Lease - 4 copies-
Fee Lease - 3 copies -

State of New Mexico-
Energy, Minerals and Natural Resources Department-

Form C-182
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1500, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Aztec, NM 88210

DISTRICT III
1000 Rio Grande Rd., Aztec, NM 87430

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

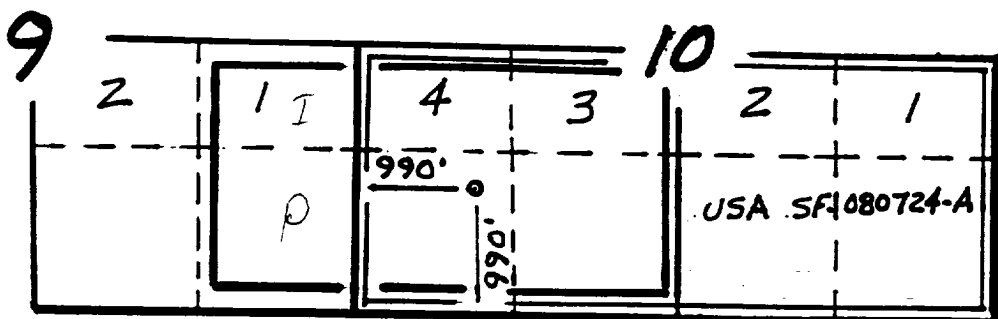
Operator Meridian Oil Inc.,		Lease Zachry		Well No. 11
Unit Lease M	Section 10	Township 28 North	Range 10 West	County San Juan
Amount Footage Location of Well: 990 feet from the South line and 990 feet from the West line				
Ground level Elev. 5820'	Producing Formations: Fruitland Coal/Pic.Cliffs		Basin/Aztec	Dedicated Acreage: 259.2/193.75 Acres
<p>1. Outline the acreage dedicated to the subject well by colored pencil or ink on the plat below.</p> <p>2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</p> <p>3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by commutation, unitization, force-pooling, etc.? <input type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes" type of consolidation: _____</p> <p>If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____</p> <p>No acreage will be assigned to the well until all interests have been consolidated (by commutation, unitization, force-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.</p>				

* Not re-surveyed prepared
from plat:
Dated 6-10-55
By Stephen H. Kinney

RECEIVED
JAN 21 1994
OIL CON. DIV
DIST. 3

OPERATOR CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Peggy Bradfield</i> Signature	
Printed Name: Peggy Bradfield	
Position: Regulatory Representative	
Company: Meridian Oil Inc.	
Date: 12-30-93	

SURVEYOR CERTIFICATION	
I hereby certify that the well location shown on this plat was placed from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief. 12-04-94	
Date Surveyed: C. E. Edwards	
Name: C. E. Edwards	
Signature: <i>C. E. Edwards</i>	
Printed Name: C. E. Edwards	
9857	



Pertinent Data Sheet - Zachry #11

Location: 990' FSL, 990' FWL, Section 10, T28N, R10W, San Juan County, New Mexico

Field: Aztec Pictured Cliffs

Elevation: 5820' DF

TD: 2075'

PBTD: 2074'

Completed: 07-10-55

Spud Date: 06-30-55

DP #: 32104B

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
12 1/4"	9 5/8"	36.0# J-55	128'	120 sxs	Surface/Circ
8 3/4"	5 1/2"	15.5# J-55	2075'	150 sxs	

Tubing Record:

<u>Tbg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>
1 1/4"	2.4# J-55	2019'

Formation Tops:

Fruitland: 1585'
Pictured Cliffs: 1992'

Logging Record: Micro, IES

Stimulation:

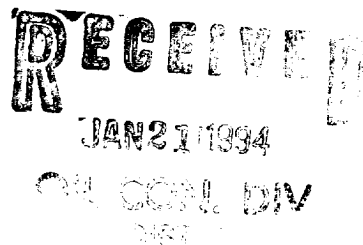
Open Hole Sand/Oil Frac 2014' - 2030' w/10,500 gal oil & 14,000# sand.

Workover History:

02/84: Re-Frac (2014' - 2030" & 1995' - 2004") w/85,632 gal 2% KCl slick water & 80,000# sand & 1,000 gal 15% HCl

Production History:

Transporter: Sunterra Gas Gathering Co.



177
178
179
180
181
182

JAN 21 1994

ZACHRY #11

CURRENT

ARTS & CRAFTS CENTER
1000 N. 10TH ST., SUITE 100, DENVER, CO 80202

COMPLETED 7/16/66
REPLACED 2/7/84

9-5/8" 30# J-55 BRD CBG SET @ 125'
CIRC. CMT TO SURFACE

1-1/4" 2.48 J-55 TBG SET @ 2018'

TOC @ 77777

5-1/2" 15.88 J-65 BRD CSO SET © 2078
CMT W/ 100 SX CEMENT

總

WNO PERFS
FRACED W/MS. 632 GAL.
AND 80,000 SAND

PICTURED CLIFFS © 1962

UPPER FTC
MEMS

LOWER
FTC MEMS

FRUITLAND • 18087

WFO PERFS
FRACED W/BA 632 GAL'S WATER
AND 68,000'S SAND

ZACHRY #11

PROPOSED

ACTING PICTURED CLIFFORDIAN PTC CONSOLE
LUNTY IN DEC 10, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2

COMPLETED 7/16/56
REPLACED 2/7/64

9-540° 36# J-55 BRD CSG SET @ 126"
CIRC. CMT TO SURFACE

1-1/2" 2.94 J-55 TBG SET @ 2020'

**TOC @ TO BE DETERMINED AND
EVALUATED FOR REPAIR**

6-1/2" 15.89 LBS BRD CSO SET @ 2076
CONT W/ 180 SX CEMENT

12345

ZACHRY #11
Recommend Completion Procedure
SW/4 Section 10 T28N R10W

1. Test rig anchors and repair if necessary. Install 2-400 bbl frac tanks on location and fill with 2% KCl water. Filter all water to 25 microns.
2. MOL and RU. Comply to all NMOCD, BLM and MOI rules & regulations. Hold safety meeting. ND wellhead. NU BOP. Test operation of rams. NU two relief lines.
3. TOOH w/ 2019 1-1/4", tally and inspect.
4. TIH w/ 4-3/4" bit and 5-1/2" casing scraper on 2-3/8" tbg and clean out 5-1/2" casing to PBTD @ 2074'. TOOH.
5. Load hole w/ 15 bbls 2% KCl water. RU & RIH w/ CNL-CCL-GR and log from PBTD @ 2074' to 1600'
6. RIH and wireline set 5-1/2" CIBP @ 1992'. Load hole w/ water. TOOH.
7. TIH w/ fullbore packer and 2-3/8" tubing, set packer @1950', test CIBP to 3000 psi for 15 minutes. Test tubing/casing annulus to 500 psi for 15 minutes. Equalize pressure and unseat packer. TOOH.
8. RU wireline and run CBL from PBTD (1992') to 150'. If CBL appears inadequate, re-run log with 750 psi surface pressure. If bond still appears unacceptable, contact production engineering. Send copy of CBL to production engineering.
9. Insure both 400 bbl tanks on location are filled with 2% KCl water in preparation for Fruitland coal fracs. Filter all water to 25 microns.

RECEIVED
JAN 27 2004
OIL & GAS DIV.

ZACHRY #11
Recommend Completion Procedure
SW/4 Section 10 T28N R10W
Page 2

*****LOWER COAL*****

10. RU wireline and perf the following coal interval w/ 4" HSC w/ 19.8 gram charges @ 4 SPF (correlate depths to CNL-CCL-GR log).

1978-1990'

Total: 12 feet: 48 holes

11. TIH w/ 3-1/2" 9.3# N-80 FJ frac string and set fullbore pkr @ 1920'. Load backside w/ 2% KCl water.
12. RU treatment company for frac. Hold safety meeting with all personnel. Pressure test surface lines to 5000 psi. Fracture treat lower coal according to attached schedule w/ 70Q foam at 20 BPM with 65,000 lbs of 20/40 mesh Arizona sand. Flush with 15 bbls gel. Estimated treating pressure is 1700 psi. **MAXIMUM PRESSURE IS LIMITED TO 4000 PSI** Monitor backside and braden head pressures during frac. Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight only.
13. SI well for 3 hours for gel break.
14. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.
15. Re-fill 400 bbl frac tanks with 2% KCl water and filter to 25 microns.
16. When well ceases to flow, TOOH w/ pkr and frac string. TIH w/ 2-3/8" tbg and csg scraper to 1950'. TOOH. TIH and set 5-1/2" RBP @ 1920'.

RECEIVED
JAN 21 1994
OIL CON. DIV.
DIST. 3

ZACHRY #11
Recommend Completion Procedure
SW/4 Section 10 T28N R10W
Page 3

*****UPPER COAL*****

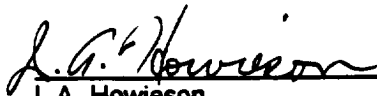
17. RU wireline and perf the following coal interval w/ 4" HSC w/ 19.8 gram charges @ 4 SPF (correlate depths to CNL-CCL-GR log).

1852-1863'

Total: 11 feet: 44 holes

18. TIH w/ frac string and set pkr @ 1900'. Pressure test BP to 3000 psi surface pressure.
19. Release pkr, PU to 1800', load backside and set pkr @ approx 1800'.
20. RU treatment company for frac. Hold safety meeting with all personnel. Pressure test surface lines to 5000 psi. Fracture treat upper coal according to attached schedule w/ 70Q foam at 30 BPM with 75,000 lbs of 20/40 mesh Arizona sand. Tag all sand w/ 0.4 mCi/1000# Ir-192 tracer. Flush with 15 bbls gel. Estimated treating pressure is 2300 psi. **MAXIMUM PRESSURE IS LIMITED TO 4000 PSI!** Monitor backside and braden head pressures during frac. Monitor bottomhole and surface treating pressure, rate, foam quality and sand concentration with computer van. Frac during daylight only.
21. SI well for 3 hours for gel break.
22. After gel break, open well through choke manifold & monitor flow. Flow @ 20 bbls/hr, or less if sand is observed.
23. When well ceases to flow, TOOH w/ pkr and frac string. TIH w/ retrieving head on 2-3/8" tbg and clean out upper zone until sand flow stops. **Take Pitot gauge before releasing BP.** Release RBP set @ 1920' and TOOH.
24. TIH w/ 2 3/8" tbg open ended and clean out lower coal until sand stops. After clean up, flow test the Coal for 24 hrs, taking pitot gauges every 6 hrs. **Take final Pitot gauge and gas & water samples.** TOOH
25. TIH w/ 2-3/8" tbg and 4 3/4" bit, clean out to PBTD. Blow well clean. Drill out CIPB set @ 1992', clean out to open hole TD. TOOH laying down 2-3/8" tbg.
26. RU wireline and run After - Frac - GR log from 2074' to 1800'.
27. TIH w/ 2020' of 1-1/2" tbg w/ standard seating nipple one jt off bottom and pump-off plug on bottom. Land tbg string.
28. ND BOP and NU independent wellhead. Pump off plug. **Take final Pitot gauge.** Rig down & release rig.

Approve: _____


J. A. Howieson

VENDORS:

Wireline:
Fracturing:
RA Tagging:

Schlumberger
Western
Protechnics

325-5006
327-6222
328-7133

JAN 31 1994

OIL CON. DIV.

10000