

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

RECEIVED
JUN 22 1998

OIL CON. DIV.
DIST. 3

Form C-101
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address. Merrion Oil & Gas Corporaion 610 Reilly Avenue Farmington New Mexico 87401		² OGRID Number 014634
		³ API Number 30 - 0 45-29635
⁴ Property Code 20182	⁵ Property Name Farmington Com	⁶ Well No. 1E

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	14	29N	13W		1035'	North	865'	West	San Juan

⁸ Proposed 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
D	11	29N	13W		1650'	South	990'	West	San Juan
⁹ Proposed Pool 1 Basin Dakota					¹⁰ Proposed Pool 2				

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 5315'
¹⁶ Multiple N	¹⁷ Proposed Depth 6015'TVD, 6920' MD	¹⁸ Formation Dakota	¹⁹ Contractor Unknown	²⁰ Spud Date Est Aug, 1998

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12-1/4"	8-5/8"	24 ppf	320'	200 sx	Surface
7-7/8"	4-1/2"	10.5 ppf	6920'	935 sx	Surface

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Merrion proposes to drill 12-1/4" hole with native mud to approx 320' (or 50' below fill) and set 8-5/8" 24# J55 surface casing, cement to surface with ~200 sx 'B' w/ 2% CaCl2 (236 cuft). Will directionally drill 7-7/8" hole to TD @ approx 6920' MD with low solids non-dispersed mud system. Run open hole surveys. Will set 4-1/2" 10.5 ppf J55 production casing from TD to surface. Will cement in two stages: first stage with 150 sx 'B' 35:65 Pozimix w/ 12% Gel (437 cuft) and tail in with 200 sx 'B' 2% gel (244 cuft) cement to fill from total depth across the Dakota pay zone and above the Gallup formation; second stage DV tool will be set at ~4430' Md, below Point Lookout formation and into Mancos shale, will cement with 435 sx 'B' 35:65 Pozimix w/ 12% Gel (1266 cuft) and tail in with 150 sx 'B' 2% gel (183 cuft). Top of Cement should circulate to surface (will adjust volumes based upon caliper log).

Will test Dakota pay zones through perforated casing. Will fracture stimulate and put on for production test. Drilling operations below surface casing will be conducted with a double ram type BOP in place, minimum working pressure 2000 psig.

This well is located within the City Limits of Farmington and a permit will be obtained from the City.

Estimated Formation tops (TVD): Kirtland - Surface, Fruitland - 803', Pictured Cliffs -1188', Lewis - 1378', Cliffhouse - 2738', Menefee - 2848', Pt. Lookout - 3618', Mancos - 3963', Gallup - 4900', Greenhorn - 5668', Graneros - 5718', Dakota - 5758'.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name: Steven S. Dunn

Title: Drilling & Production Manager

Date:
June 18, 1998

Phone:
505-327-9801

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Conditions of Approval :
Attached ☐

DEPUTY OIL & GAS INSPECTOR, DIST. #3

Expiration Date:

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
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Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-29625	² Pool Code 71599	³ Pool Name Basin Dakota
⁴ Property Code 20182	⁵ Property Name Farmington Com	⁶ Well Number 1 E
⁷ OGRID No. 014634	⁸ Operator Name MERRION OIL & GAS	⁹ Elevation 5315

¹⁰ Surface Location

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¹¹ Bottom Hole Location If Different From Surface

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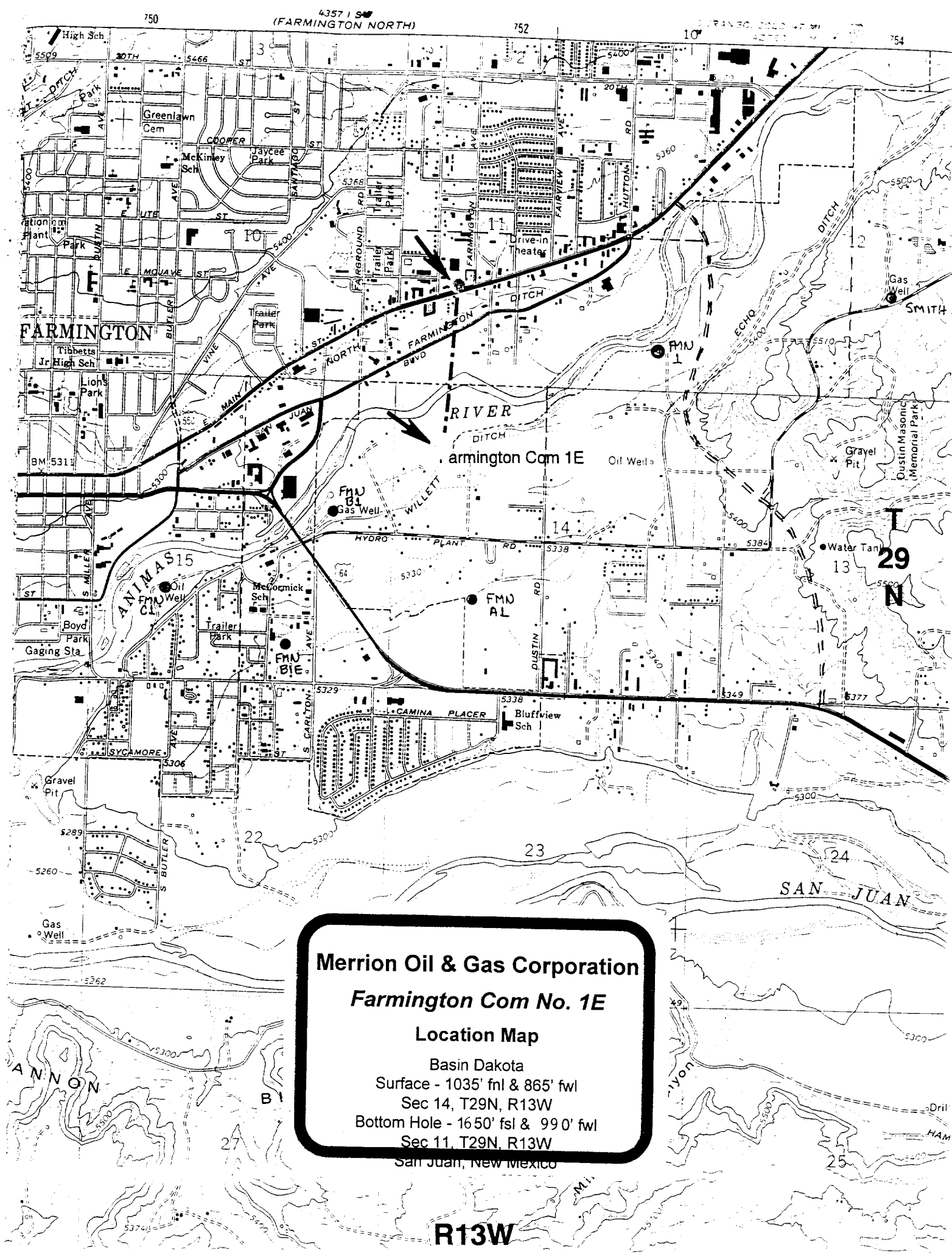
¹² Dedicated Acres N/ 320	¹³ Joint or Infill Y	¹⁴ Consolidation Code 0	¹⁵ Order No. (Pooled Fee Leases)
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

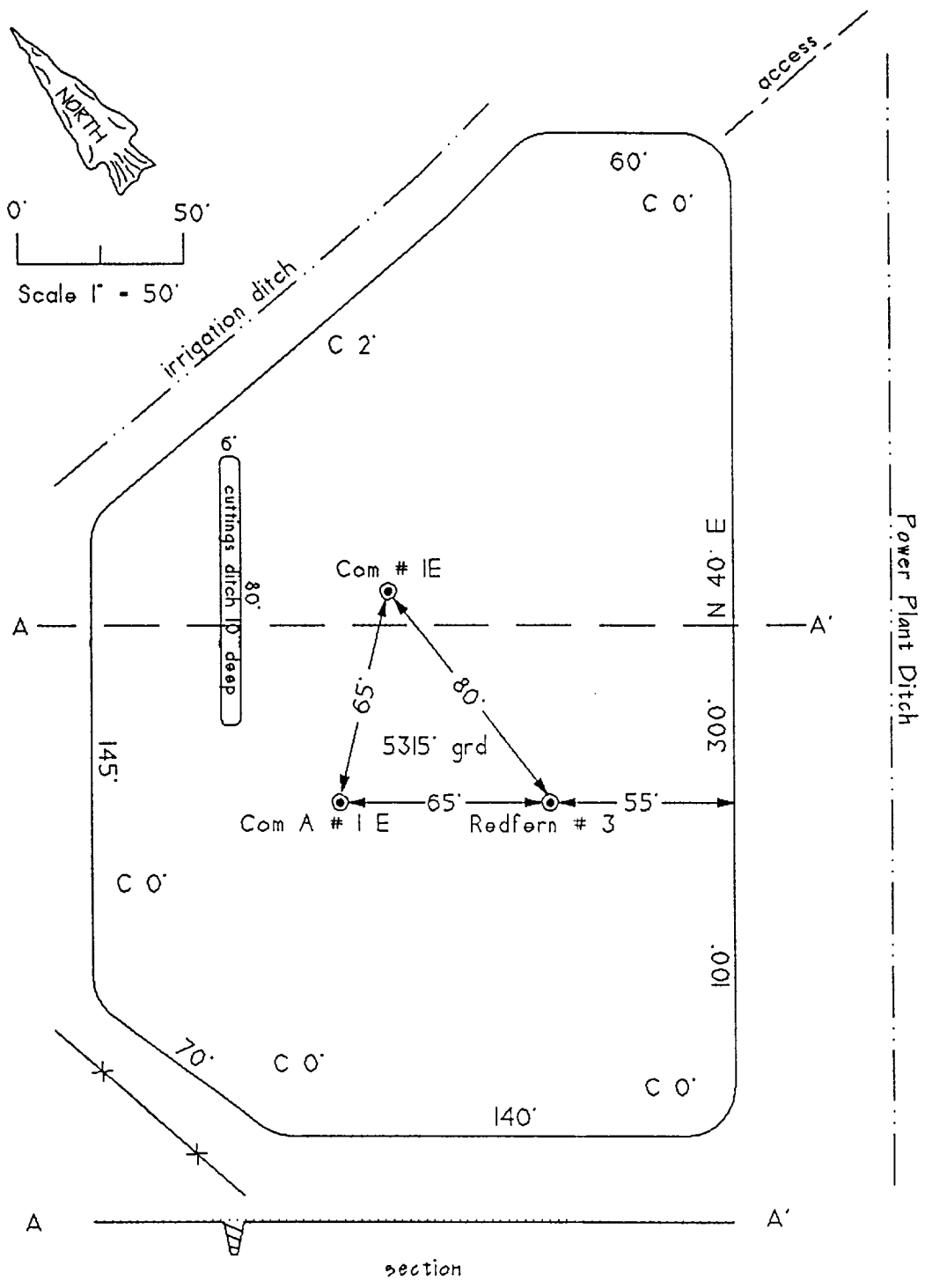
¹⁶	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature Steven S. Dunn Printed Name Drilling & Production Manager Title June 17, 1998 Date
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location 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 knowledge and belief Date of Survey Signature and Seal of Professional Surveyor Certificate Number

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OIL CON. DIV.
SANTA FE



Riverine Dakota
well pad & section



Merrion Oil & Gas Corporation

Wellbore Schematic

Farmington Com No. 1E

Proposed Wellbore Configuration

Prepared: June 18, 1998

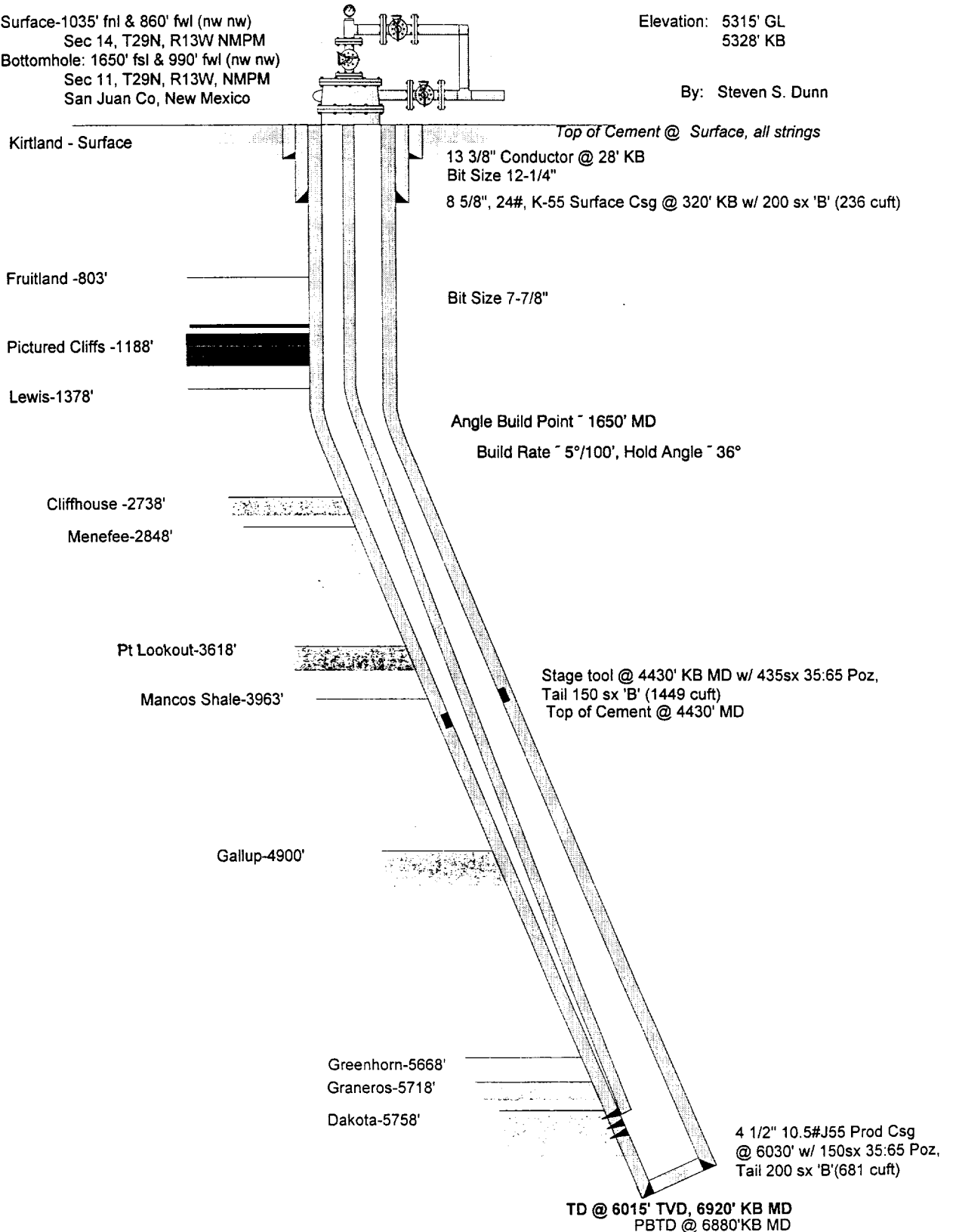
Location:

Surface-1035' fnl & 860' fwl (nw nw)
 Sec 14, T29N, R13W NMPM
 Bottomhole: 1650' fsl & 990' fwl (nw nw)
 Sec 11, T29N, R13W, NMPM
 San Juan Co, New Mexico

Elevation: 5315' GL
 5328' KB

By: Steven S. Dunn

Cretaceous



DIRECTIONAL PROPOSAL

Well Name: Farmington Com No. 1E

Location: NW/4, S 14, T29N, R13

Rig:

Trgt Azimuth: 2.665°

Trgt Build Rate:

4.802° per 100ft

San Juan, New Mexico

Elevation: 5,328 RKB

No	Measured Depth (ft)	Incl. (deg)	Azimuth (0°-360°)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Closure (ft)	Vertical Section (ft)	Dogleg Severity (°/100ft)	Build Rate (°/100ft)	Walk Rate (°/100ft)
1	-	-	-	0.00	0.00 N	0.00 E	0.00	0.00	N/A	N/A	N/A
2	500	0.000	2.665	500.00	0.00 N	0.00 E	0.00	0.00	0.00	0.00	0.53 R
3	1,000	0.000	2.665	1,000.00	0.00 N	0.00 E	0.00	0.00	0.00	0.00	0.00 R
4	1,500	0.000	2.665	1,500.00	0.00 N	0.00 E	0.00	0.00	0.00	0.00	0.00 R
5	1,653	0.000	2.665	1,653.06	0.00 N	0.00 E	0.00	0.00	0.00	0.00	0.00 R
6	1,800	7.056	2.665	1,799.63	9.03 N	0.42 E	9.04	9.04	4.80	4.80	0.00 R
7	1,900	11.857	2.665	1,898.24	25.43 N	1.18 E	25.46	25.46	4.80	4.80	0.00 R
8	2,000	16.659	2.665	1,995.13	50.03 N	2.33 E	50.08	50.08	4.80	4.80	0.00 R
9	2,100	21.461	2.665	2,089.62	82.64 N	3.85 E	82.73	82.73	4.80	4.80	0.00 R
10	2,200	26.263	2.665	2,181.05	123.04 N	5.73 E	123.17	123.17	4.80	4.80	0.00 R
11	2,300	31.065	2.665	2,268.77	170.94 N	7.96 E	171.12	171.12	4.80	4.80	0.00 R
12	2,400	35.867	2.665	2,352.16	226.01 N	10.52 E	226.25	226.25	4.80	4.80	0.00 R
13	2,500	35.867	2.665	2,433.20	284.53 N	13.25 E	284.84	284.84	0.00	0.00	0.00 R
14	3,000	35.867	2.665	2,838.39	577.17 N	26.87 E	577.79	577.79	0.00	0.00	0.00 R
15	4,000	35.867	2.665	3,648.78	1,162.43 N	54.12 E	1,163.69	1,163.69	0.00	0.00	0.00 R
16	4,500	35.867	2.665	4,053.97	1,455.06 N	67.74 E	1,456.64	1,456.64	0.00	0.00	0.00 R
17	5,000	35.867	2.665	4,459.16	1,747.70 N	81.36 E	1,749.59	1,749.59	0.00	0.00	0.00 R
18	5,500	35.867	2.665	4,864.36	2,040.33 N	94.99 E	2,042.54	2,042.54	0.00	0.00	0.00 R
19	6,000	35.867	2.665	5,269.55	2,332.96 N	108.61 E	2,335.49	2,335.49	0.00	0.00	0.00 R
20	6,602	35.867	2.665	5,757.00	2,685.00 N	125.00 E	2,687.91	2,687.91	0.00	0.00	0.00 R
21	6,919	35.867	2.665	6,014.61	2,871.05 N	133.66 E	2,874.16	2,874.16	0.00	0.00	0.00 R

Merrion Oil & Gas Corporation

Well: *Farmington Com No. 1E*

Directional Plot

San Juan County, New Mexico

