

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

5. Lease Designation and Serial No.
Surface Location Fee
Bottom Hole Location Tribal
6. If Indian, Allottee or Tribe Name
1-109-IND-5247

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
DRILL DEEPEN PLUG BACK

7. Unit Agreement Name
UTE & OURAY
Roosevelt

b. Type of Well
Oil Well Gas Well Other
Single Zone Multiple Zone

8. Farm or Lease Name
Roosevelt Unit

2. Name of Operator
Rio Bravo Oil Company

9. Well No.
RU-20-2

3. Address of Operator
Bravo Oil Co., 30th Floor, 201 Mission St. San Francisco, CA

10. Field and Pool, or Wildcat
BLUE BELL
Roosevelt Field

4. Location of Well (Report location clearly and in accordance with any State requirements.)*
At surface 2457' FWL 242' ESL, Sec. 17, T1S, R1E, U.S.M. *SE SW NE 1/4*

11. Sec., T., R., M., or Blk. and Survey or Area
Sec. 17, T1S, R1E, U.S.M.

At proposed prod. zone
Bottom Hole Location 1980 FWL - 660' FNL-Tribal Sec 20, T1S, R1E

12. County or Parrish 13. State
U.S.M. Uintah Utah

14. Distance in miles and direction from nearest town or post office*
12 1/2 miles Northeast of Roosevelt, Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)
242'

16. No. of acres in lease
3412

17. No. of acres assigned to this well
40

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.
3300'

19. Proposed depth
10,400 (Green River Form.)

20. Rotary or cable tools
Rotary

21. Elevations (Show whether DF, RT, GR, etc.)
GR-5479'

22. Approx. date work will start*
Dec. 16, 1983

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
26"	20"	94# H40	80'	To surface
14-3/4"	10-3/4"	40.5# H-40 STC	2500'	To surface
9-7/8"	7"	23-26#	10,400'	1530 SX

Proposed Green River Formation Completion.

See Proposed Drilling Program Attached.

Note: Directionally drilling will begin at approximately 7,700' to T.D. of 10,400' with 9-7/8" hole.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 12/14/83
BY: [Signature]

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Signed [Signature] Title Division Drilling Engineer Date 12/14/83

(This space for Federal or State office use)

Permit No. _____ Approval Date _____

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

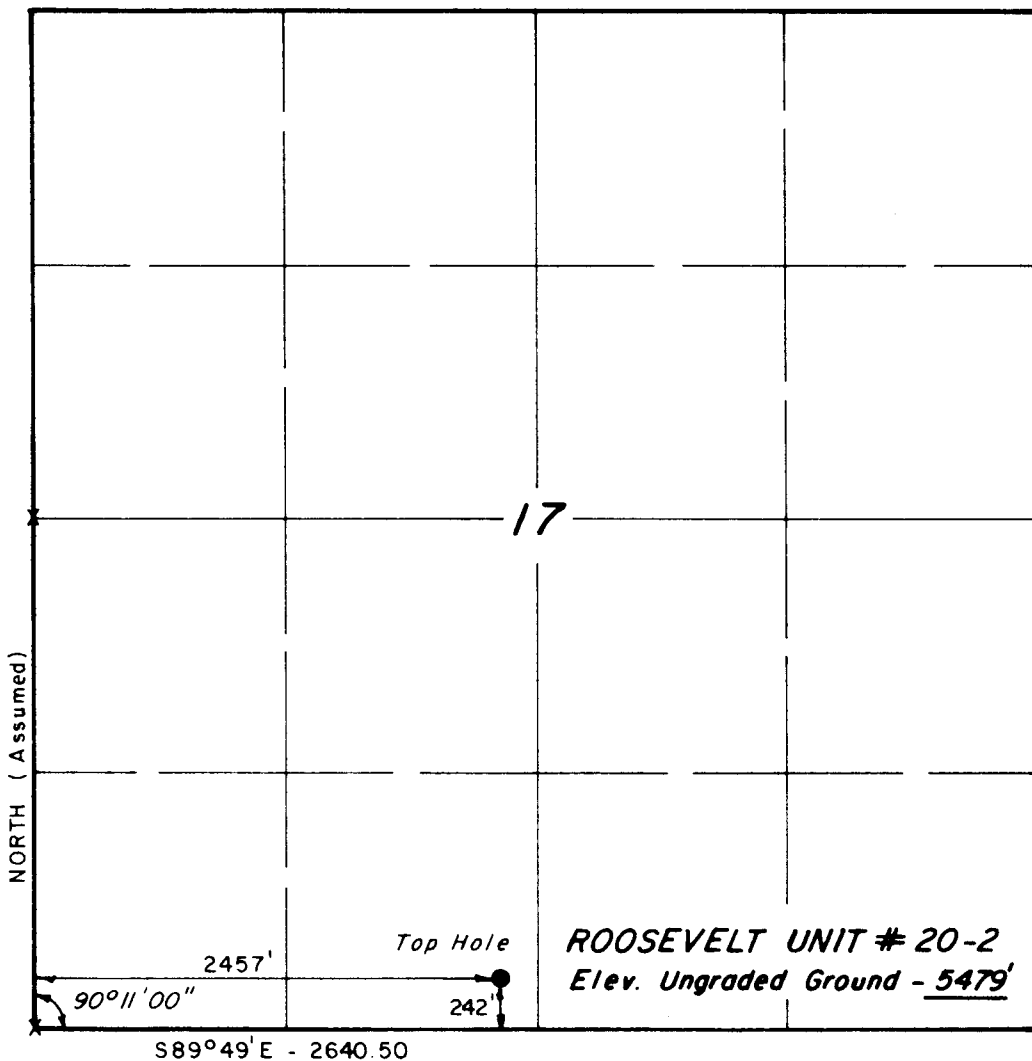
TIS , RIE , U.S.B. & M.

PROJECT

RIO BRAVO OIL CO.

Well location, *ROOSEVELT*
UNIT # 20-2, located as
 shown in the SE 1/4 SW 1/4
 Section 17, TIS, RIE, U.S.B. & M.
 Uintah County, Utah.

Note: Bottom of Hole is located in Section 20,
 TIS, RIE, U.S.M. - 660' From the
 North line & 1980' From the West line.
 Top of hole to Bottom of hole bears:
 S27°54'40"W - 1019.01'.



X = Section Corners Located



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED 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.

[Signature]
 REGISTERED LAND SURVEYOR
 REGISTRATION NO 2454
 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
 P. O. BOX Q - 85 SOUTH - 200 EAST
 VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	12/13/83
PARTY	DA GS RT RP	REFERENCES	GLO Plat
WEATHER	Cold	FILE	RIO BRAVO

CONDITIONS OF APPROVAL

Due to fee surface, the following stipulations will be adhered to:

1. Location will be rotated 90⁰ to the right to accommodate drilling program.
2. Operator will follow landowner rehabilitation agreement.
3. Reserve pits will be lined with a clay and plastic to prevent contamination to ground water aquifers.
4. Production facilities will be diked to prevent spillage.

5. Due to ground water aquifers close to the surface and the sensitivity of the ground water system to contamination from drilling fluids in reserve pits, the reserve pit shall be lined with a sealed liner or portable tanks shall be used instead of a reserve pit. Drilling fluids shall be removed from the location and deposited in an approved disposal facility. The pit liner shall be removed from the pit and the pit rehabilitated as soon as possible after the well has been drilled.

EXHIBIT "A"

Ten Point Compliance Program

NTL 6

Attached to Form 9-331C

OPERATOR: Rio Bravo Oil Company

WELL NAME: RU-20-2

LOCATION: Section 17, T1S, R1E, U.S.B. & M., Uintah County, State of Utah.

(SURFACE)

BWL - Section 20, T1S, R1E

1. GEOLOGIC SURFACE FORMATION

Tertiary Duchesne River Formation.

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS

Duchesne River Surface Formation - surface
Green River 5960'
Wasatch 10,350'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS

No water flows anticipated.
Oil & Gas 5400' to 10,400 T.D.

4. PROPOSED CASING PROGRAM

(a) 10-3/4" to 2500', 40.5#, H-40, cement to surface.
7" 23# and 26#, N-80 and S-95, surface to 10,400',
1530 sacks cement.

(b) Production Casing: 2 7/8" tubing 6.5# N-80.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL

EXHIBIT "B" is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to the full working pressure after nipping up and after any use under pressure. Pipe rams will be operationally checked each 24-hr. period, as will blind rams each time pipe is pulled out of the hole. Such checks of BOP will be noted on daily drilling reports.

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATING MUDS

0-2500' - Gel-Lime
2500' T.D. - Low solids non-dispersed fluid.

7. AUXILIARY EQUIPMENT TO BE USED

5000# Hydril Spherical Safety Valve inside BOP, 4½" pipe ram and Blind Rams (See Exhibit "A").

8. TESTING, LOGGING AND CORING PROGRAMS

(a) Test: DST's possible 8500' - 9500'

(b) Logging Program:

DIL, Sonic, Dipmeter, Surface - T.D.

VDL, FDC-CNL, 5000' - T.D.

Mud logging 2500' - T.D.

(c) Coring:

Possible 8500' - 9500'

(d) Production:

If production is obtained, producing formation will be selectively perforated and treated.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE

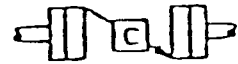
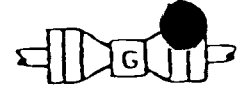
No abnormal pressure or temperatures are anticipated.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS

The anticipated starting date is to be approximately or soon as possible after examination and approval of drilling requirements. Operation should be completed within 60 days from spudding to rig release.

VALVE LEGEND

ALL STEEL, FULL OPENING VALVE ball; or nonrising or protected-stem



CHECK VALVE



UNSPECIFIED VALVE

KELLY COCK

INTERNAL PREVENTER

SAFETY VALVE

CHOKE MANIFOLD PRESSURE GAUGE

ADJUSTABLE CHOKE

STANDPIPE PRESSURE GAUGE

STANDPIPE VALVE

FILL-UP LINE

FLOW LINE

BLEED LINE

FROM MUD PUMPS

AUXILIARY PUMP CONNECTION PORT

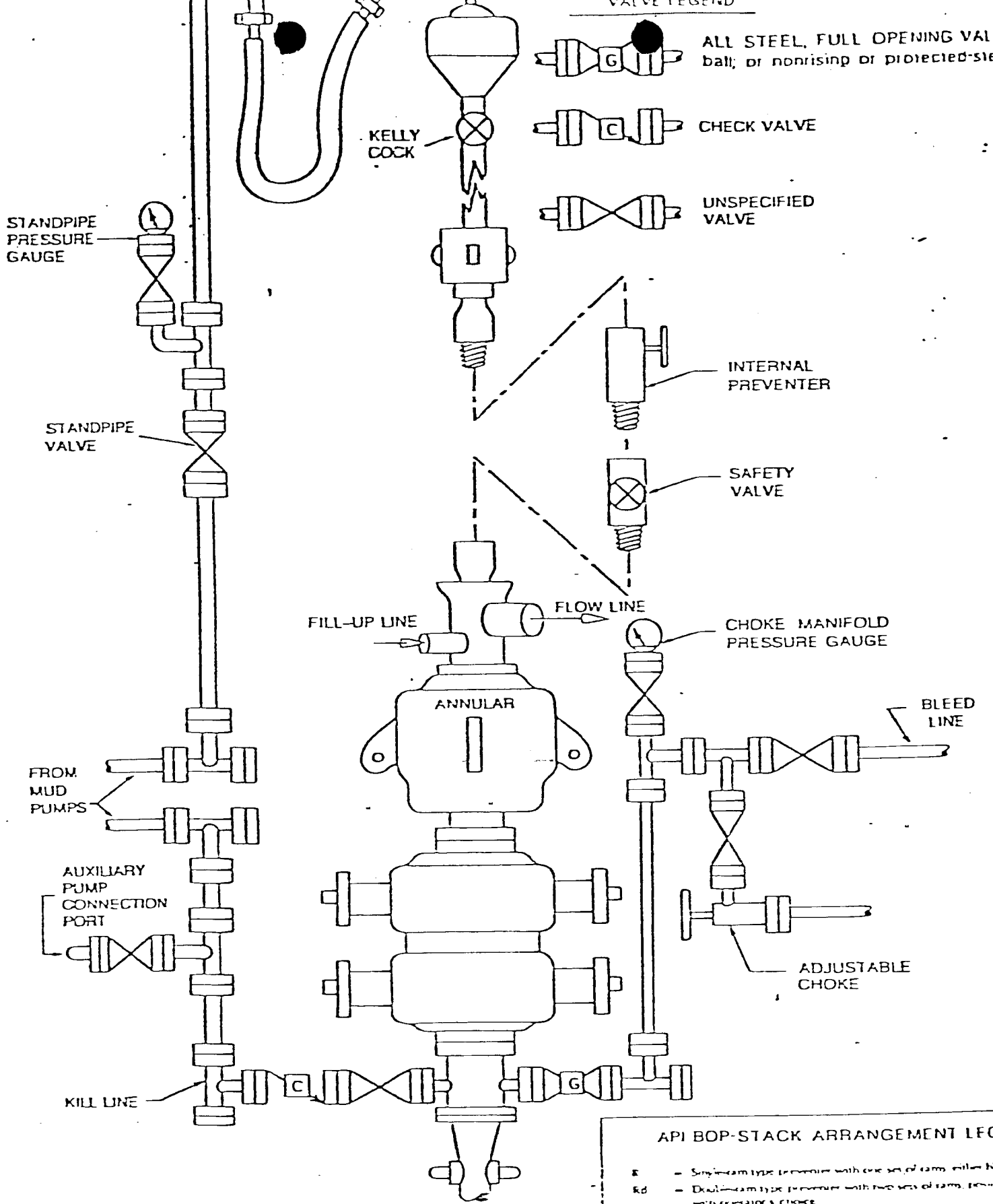
KILL LINE

ANNULAR

API BOP-STACK ARRANGEMENT LEGEND

- E - Single-ram type preventer with one set of rams, either horn
- Ed - Dual-ram type preventer with two sets of rams, pressure
- A - Annular type bitting preventer
- S - Drilling spool with side outlet connections for chokes and

EXAMPLE CLASS III BOPE INSTALLATION
API ARRANGEMENT SRRA OR SRdA



RIO BRAVO OIL COMPANY

13 Point Surface Use Plan

for

Well Location

Roosevelt Unit #20-2

Located In

Section 17, T1S, R1E, U.S.B. & M.

Uintah County, Utah

1. EXISTING ROADS

See attached Topographic Maps A and B.

To reach Rio Bravo Oil Company's well site location Roosevelt Unit #20-2 in the SE 1/4 of the SW 1/4 of Section 17, 2457' FWL and 242' FSL of Section 17, T1S, R1E, U.S.B. & M., Uintah County, Utah:

Take U.S. Hiway 40 3 + miles East of Roosevelt to Whiterocks Road #121. Go North (Left) 7 miles to an existing unimproved dirt road, turn East (Right) and go approximately 0.4 miles Easterly to the Junction of this road and the proposed access road to the North (Left).

There is no anticipated construction on any portion of the above described roads. They will meet the necessary standards required to facilitate an orderly flow of traffic during the drilling phase, completion phase, and production phase of this well at such time that production is established.

The roads that are required for access during the drilling phase, completion phase, and production phase of this well, will be maintained at the standards required by the B.I.A. or other controlling agencies.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The proposed road leaves the existing dirt road described in Item #1 in the SE 1/4 SW 1/4 Section 17, T1S, R1E, U.S.B. & M., and proceeds in a Northerly direction approximately 50' to the proposed location site.

Rio Bravo Oil Company proposes to upgrade the unimproved dirt road described in Item #1 to B.I.A. or other controlling agency standards.

In order to facilitate the anticipated traffic flow necessary to drill and produce this well, the following standards will be met:

The proposed access road will be an 18' crown road (9' either side of the centerline) with drain ditches along either side of the proposed road where it is determined necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area.

Back slopes along the cut areas of the road will be 1 1/2 to 1 slopes and terraced.

The road will be centerline flagged prior to the commencement of construction.

There will be one culvert required along this access road. It will be placed according to specifications for culvert placement found in the oil & gas surface operations manual.

The grade of this road is relatively flat but will not exceed 8%. This road will be constructed from native borrow accumulated during construction.

2. PLANNED ACCESS ROAD (Con't)

There will be no turnouts required along this road.

There is one fence encountered along this access road, there will be one gate and one cattle guard required.

The terrain that this access road traverses is relatively flat.

The vegetation of this route consists of sparse amount of sagebrush, rabbitbrush, some grasses, willows, cottonwood trees, and pasture areas.

3. EXISTING WELLS

There are 3 known producing wells within a one mile radius.

There are no known water wells, temporarily abandoned wells, disposal wells, drilling wells, shut-in wells, injection wells, monitoring or observation wells for other resources located within a one mile radius of this location site.

4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES AND PRODUCTION GATHERING AND SERVICE LINES.

At the present time there are no other Rio Bravo Oil Company production facilities, and gas gathering lines, tank batteries, oil gathering lines, injection line or disposal lines within a one mile radius.

In the event that production of this well is established, the existing area of the location will be utilized for the establishment of the necessary production facilities.

The total area that is needed for the production of this well will be fenced and cattle guards will be utilized for access to these facilities.

The area will be built if possible with native materials and if these materials are not available, then the necessary arrangements will be made to get them from a private source.

The proposed gas flowline will be an 18' right-of-way. It is not known at this time where the proposed flowline will run.

If there is any deviation from the above, all appropriate agencies will be notified.

Rehabilitation of disturbed areas no longer needed for operations after construction is completed will meet the requirements of Item #10.

5. LOCATION AND TYPE OF WATER SUPPLY

See topographic Map "B".

Water to be used for the drilling and production of this well will be pumped from a canal approximately 1000' west of the location site.

9. WELL SITE LAYOUT

See attached location layout sheet.

The B.I.A. Representative shall be notified before any construction begins on the proposed location site and road.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type of material necessary to make it safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

As there is some top soil on the location site, all top soil shall be stripped and stockpiled. (See location layout sheet and Item #9). When drilling and production activities have been completed, the location site and access road will be reshaped to the original contour and stockpiled top soil spread over the disturbed area.

Any drainages re-routed during the construction activities shall be restored to their original line of flow as near as possible. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash basket shall be hauled to the nearest sanitary landfill.

Restoration activities shall begin within 90 days after completion of the well. Once restoration activities have begun, they shall be completed within 30 days.

When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.I.A. Representative or surface owner when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said clean-up and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Item #7 and #10.

11. OTHER INFORMATION

The Topography of the General Area - (See Topographic Map "A").

The area slopes from the rim of the Book Cliff Mountains to the South to the Uintah Mountains to the North and is a portion of the Uintah Basin. The area is interlaced with numerous canyons and ridges which are extremely steep with numerous ledges formed in sandstone, conglomerates, and shale deposits.

5. LOCATION AND TYPE OF WATER SUPPLY con't

All regulations and guidelines will be followed and no deviations will be made unless all concerned agencies will be notified.

There will be no water well drilled at this location site.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time, but if they are required, the appropriate actions will be taken to acquire them from private sources.

7. METHODS OF HANDLING WASTE DISPOSAL

See location layout sheet.

A reserve pit shall be constructed.

The reserve pit will be 8' deep and at least half of the depth of the reserve pit shall be below the existing ground surface.

One-half of the reserve pit will be used as a fresh water storage area during the drilling of this well and the other one half will be used to store non-flammable material such as cuttings, salts, drilling fluids, chemicals, produced fluids, etc.

If deemed necessary by the agencies concerned, to prevent contamination to surrounding areas, the reserve pit will be lined with a gel.

The pits will have wire and overhead flagging installed at such time as deemed necessary to protect the water fowl, wildlife, and domestic animals.

At the onset of drilling, the reserve pit will be fenced on three sides and at the time the drilling activities are completed, it will be fenced on the fourth side and allowed to dry completely prior to the time that backfilling and reclamation activities are attempted.

When the reserve pit dries and the reclamation activities commence, the pits will be covered with a minimum of four feet of soil and all requirements of Item #10 will be followed.

A portable trash basket will be placed on the location site and all trash will be hauled to the nearest sanitary landfill.

A portable chemical toilet will be supplied for human waste.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

11. OTHER INFORMATION

The Topography of the General Area - (See Topographic Map "A") con't

The majority of the washes and streams in the area are non-perennial in nature with the only one in the area having a year round flow being the Montes Creek to the South, of which the numerous washes, draws and non-perennial streams are tributaries to.

The majority of the surrounding drainages are of a non-perennial nature with normal flow limited to the early spring and extremely rare heavy thunderstorms, or rain storms of high intensity that last over an extended period of time are extremely rare in nature as the normal annual precipitation is only 8".

All drainages in the immediate area are non-perennial streams and flow to the South and are tributaries to the Green River.

The soils of this semi-arid area are of the Uinta Formation and Duchesne River Formation (the Fluvial Sandstone and Mudstone) from the Eocene Epoch and Quaternary Epoch (gravels surfaces) and the visible geologic structure consists of light brownish-gray clays (OL) to sandy soils (SM-ML) with poor gravels and shales with outcrops of rock (sandstone, mudstone, conglomerates and shales).

Due to the low precipitation average climatic conditions and the marginal types of soils, the vegetation that is found in the area are common of the semi-arid region we are located in and in the lower elevations of the Uintah Basin. It consists of, as primary flow areas of sagebrush, rabbitbrush, some grasses, and cacti and large areas of bare soils devoid of any growth in the areas away from and in the vicinity of non-perennial streams and along the areas that are formed along the edges of perennial streams, cottonwood, willows, tamarack sagebrush, rabbitbrush, grasses and cacti can be found.

The fauna of the area is sparse and consists predominantly of the mule deer, coyotes, pronghorn antelope, rabbits, and varieties of small ground squirrels and other types of rodents, and various reptiles common to this area.

The birds of the area are raptors, finches, ground sparrows, magpies, crows and jays.

The area is used by man for the primary purpose of grazing domestic livestock.

The Topography of the Immediate Area - (See Topographic Map "B")

This well location site sits on a relatively flat area approximately 1000' Northeast of the West channel of the Uintah River.

The geologic structure of the location is of the Uinta Formation and consists of light brownish-gray clay (SP-PL) with some sandstone outcrops.

11. OTHER INFORMATION

The Topography of the Immediate Area - (See Topographic Map "B") con't

The ground slopes from the North through the site to the South at approximately a 2% grade.

The location is covered with some sagebrush and grasses.

✓ The total surface ownership affected by this location is owned by Wanda Russell Hackford, the bottom of the hole is in Sec. 20, T1S, R1E, U.S.B. & M. and is owned by the Ute Tribe.

There are no occupied dwellings or other facilities of this nature in the general area.

There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "B").

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE


Mr. Robert Hill, Esq.
c/o Ray, Quinney & Nebeker
400 Deseret Bldg., 79 S. Main
Salt Lake City, Utah 84111

13. CERTIFICATION

I hereby certify that I or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with the operation proposed herein will be performed by RIO BRAVO OIL COMPANY and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

12-15-83

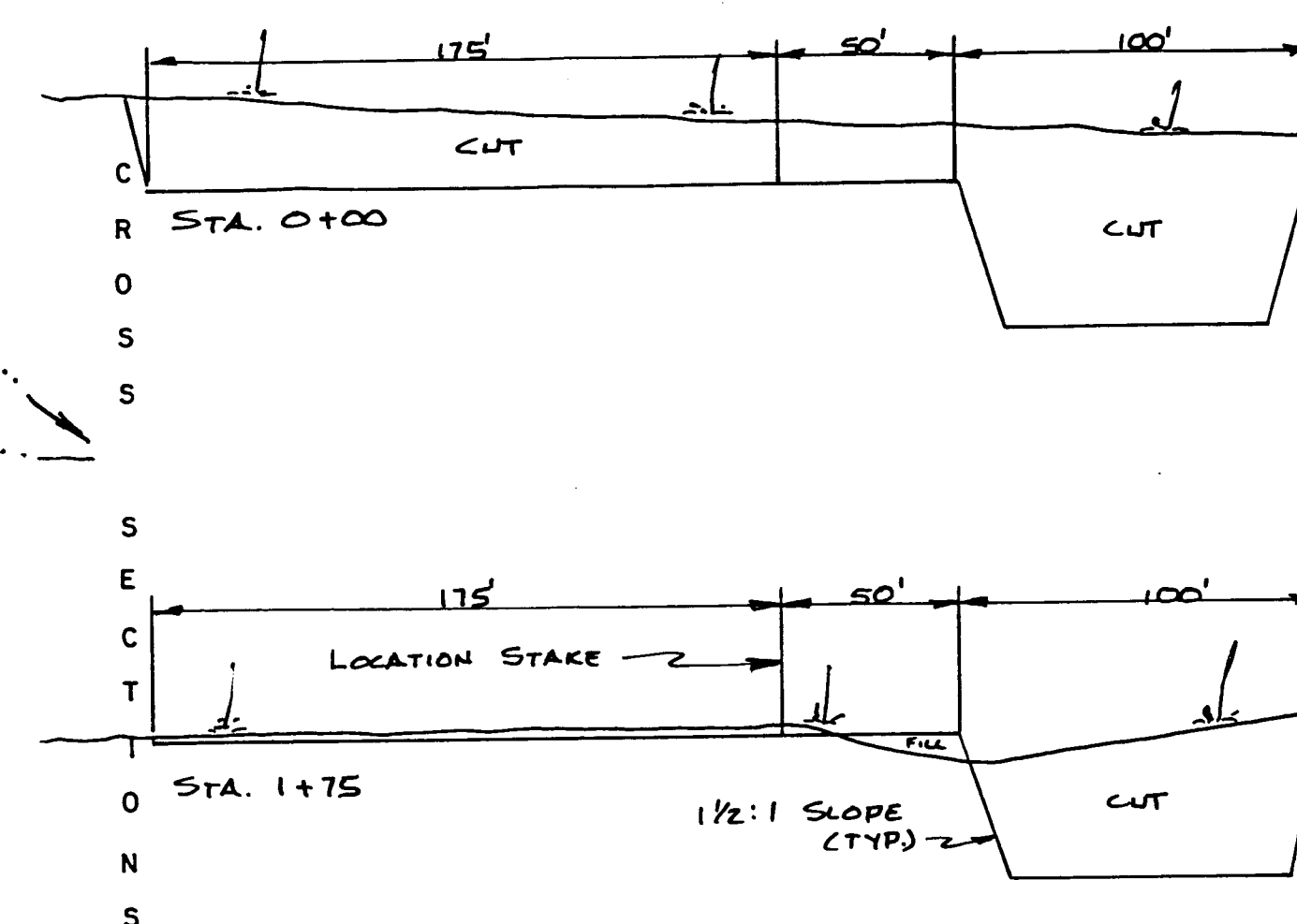
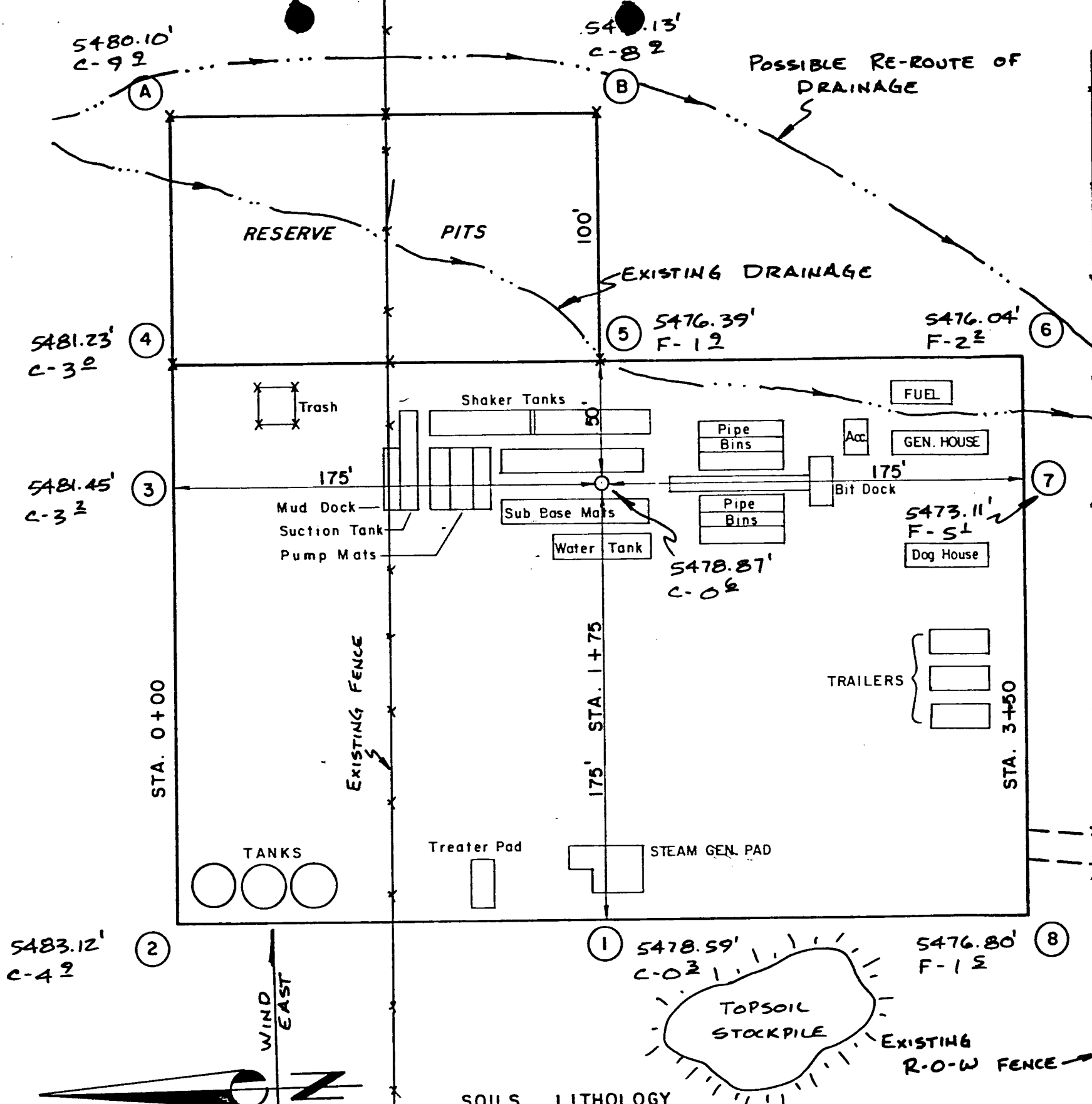
Date


Billy L. Graham
Division Drilling Engineer

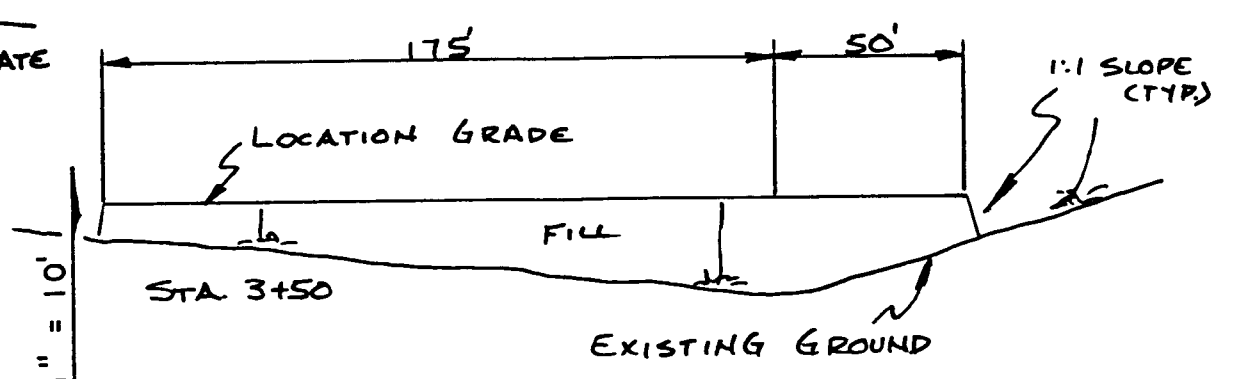
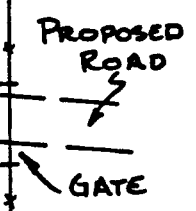
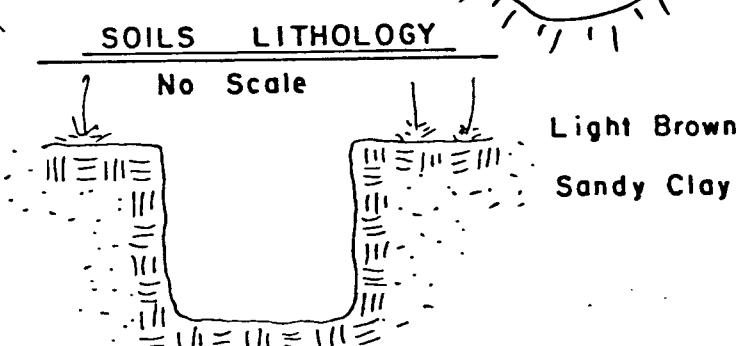
RIO BRAVO OIL CO.

Roosevelt Unit # 20-2

LOCATION LAYOUT & CUT SHEET



SCALE: 1" = 50'
DATE: 12/13/83



Scales
1" = 50'

APPROXIMATE YARDAGES

Cubic Yards Cut - 9,434
Cubic Yards Fill - 3,069

RIO BRAVO OIL CO

ROOSEVELT UNIT #20-Z
PROPOSED LOCATION

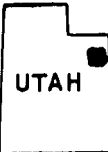
TOPO.

MAP "B"

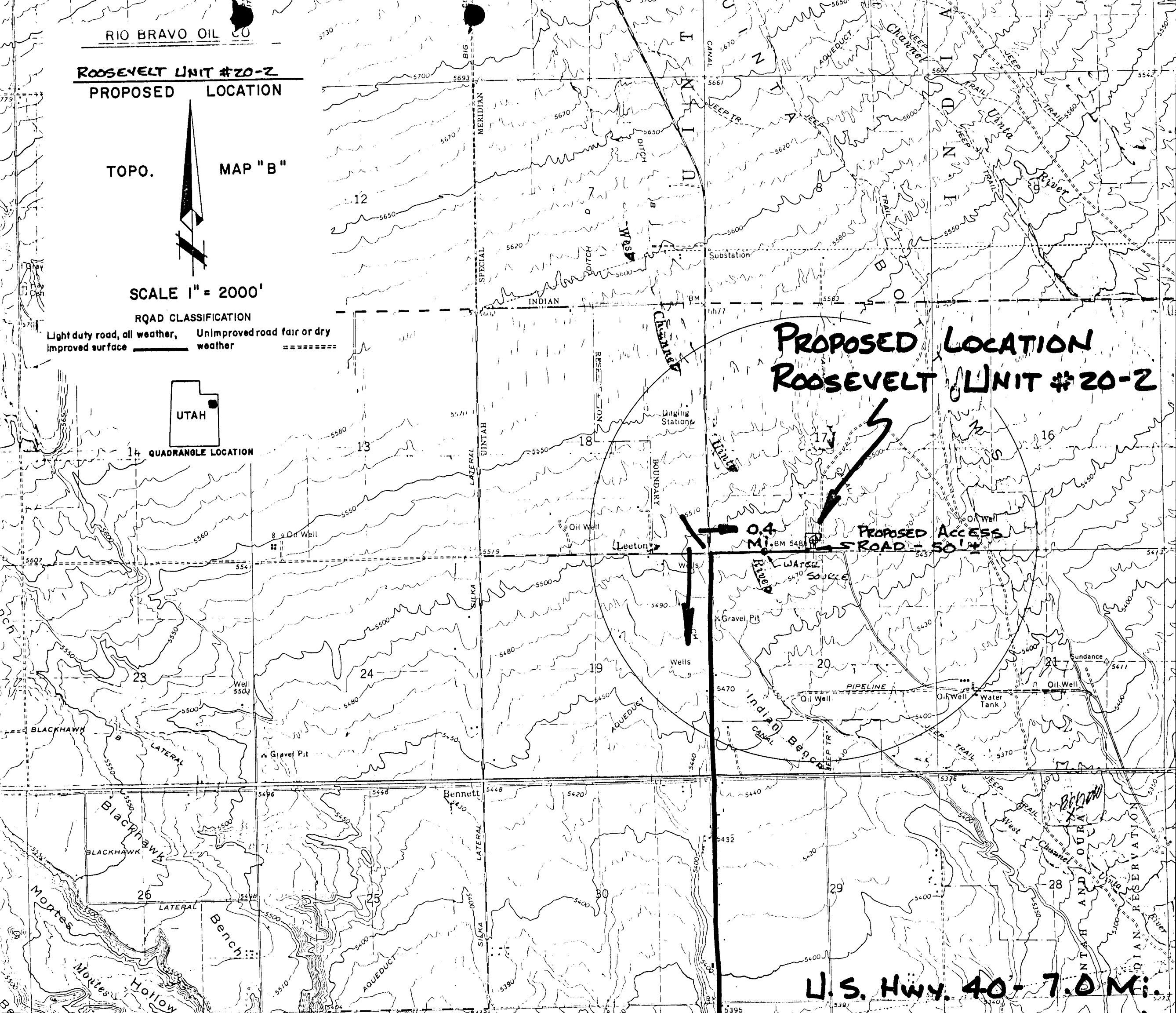
SCALE 1" = 2000'

ROAD CLASSIFICATION

Light duty road, all weather, improved surface  Unimproved road fair or dry weather 



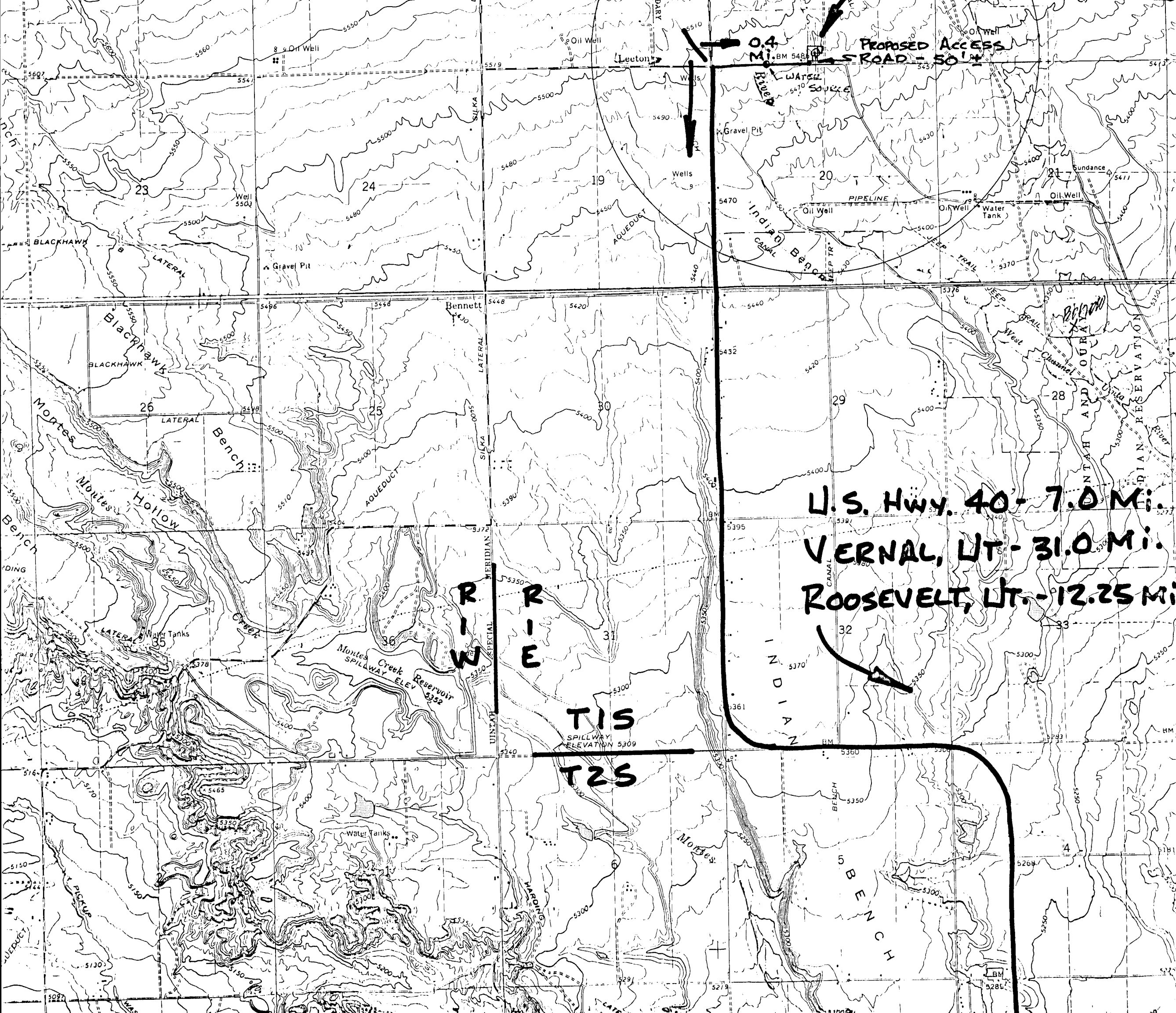
QUADRANGLE LOCATION



**PROPOSED LOCATION
ROOSEVELT UNIT #20-Z**

0.4 MI. PROPOSED ACCESS ROAD - 50'

U.S. Hwy. 40 - 7.0 Mi.



0.4 MI. BM 5481
PROPOSED ACCESS ROAD - 50'

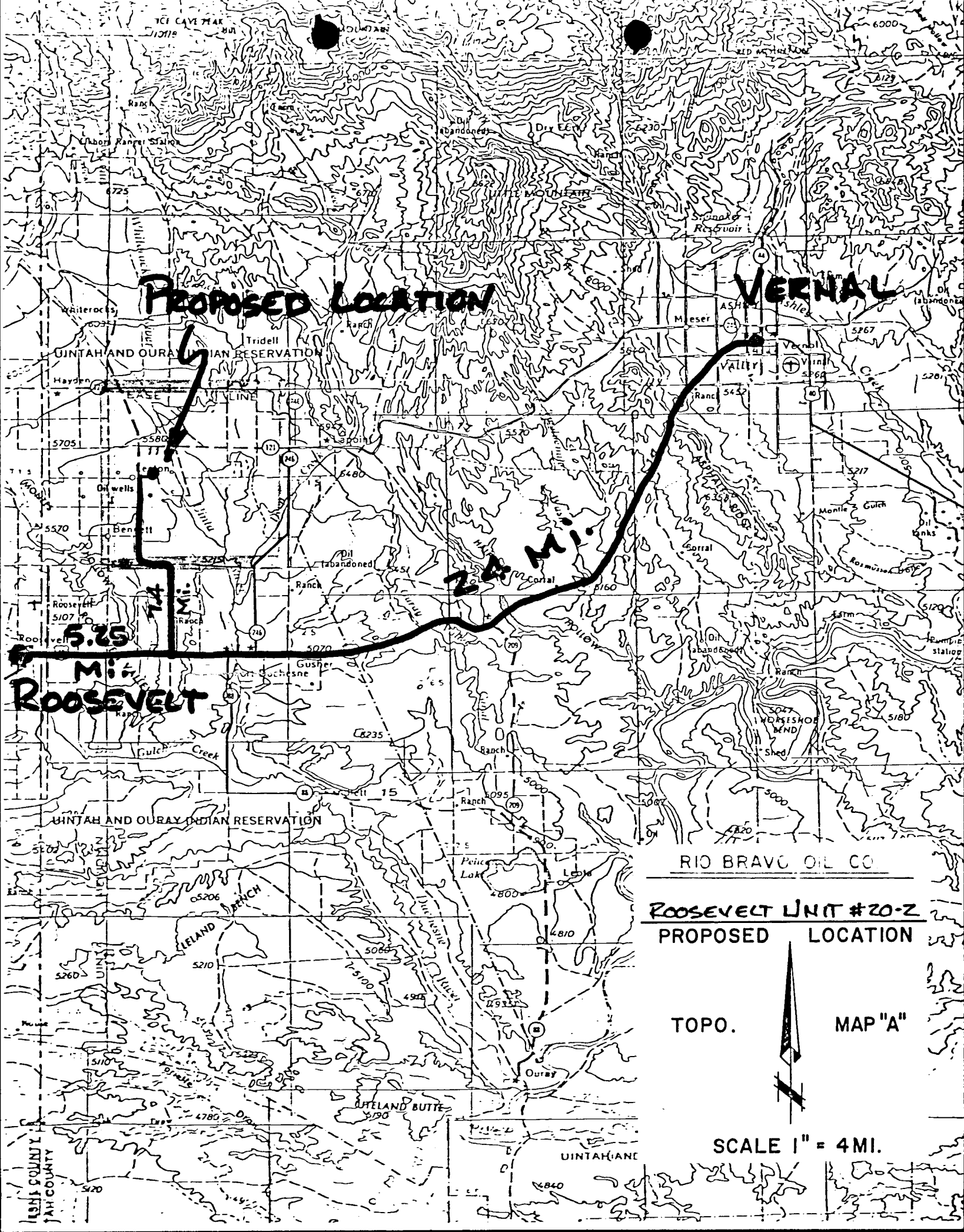
U.S. Hwy. 40 - 7.0 MI.
VERNAL, UT - 31.0 MI.
ROOSEVELT, UT - 12.25 MI.

**R
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INDIAN

BENCH

Map labels include: 23, 24, 19, 20, 26, 25, 30, 29, 28, 32, 33, 35, 36, 31, 32, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.



Proposed Location

VERNAL

5.25 Mi.
ROOSEVELT

24 Mi.

1.4 Mi.

1.2 Mi.

RIO BRAVO OIL CO.

**ROOSEVELT UNIT #20-Z
PROPOSED LOCATION**

TOPO.

MAP "A"

SCALE 1" = 4 MI.



OPERATOR

Rio Bravo

DATE

12/16/83

WELL NAME

RU #20-2

SEC

Surface
SE SW 17

T

15

R

1E

COUNTY

Uintah

B#L NE NW 20

43-047-31422

API NUMBER

Indian

TYPE OF LEASE

POSTING CHECK OFF:

INDEX

MAP

HL

NID

PI

PROCESSING COMMENTS:

✓
CHIEF PETROLEUM ENGINEER REVIEW:

12/16/83

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE:

BY:

12/16/83
[Signature]

APPROVAL LETTER:

SPACING:

A-3

Roosevelt
UNIT

c-3-a

CAUSE NO. & DATE

c-3-b

c-3-c

SPECIAL LANGUAGE:

Water

- RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.
- AUTHENTICATE LEASE AND OPERATOR INFORMATION
- VERIFY ADEQUATE AND PROPER BONDING
- AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.
- APPLY SPACING CONSIDERATION

ORDER _____

UNIT Roswell

c-3-b

c-3-c

BA: _____
 DVLE: _____
 OIL GAS AND MINING
 DEPT DIVISION OF
 APPROVED BY THE STATE

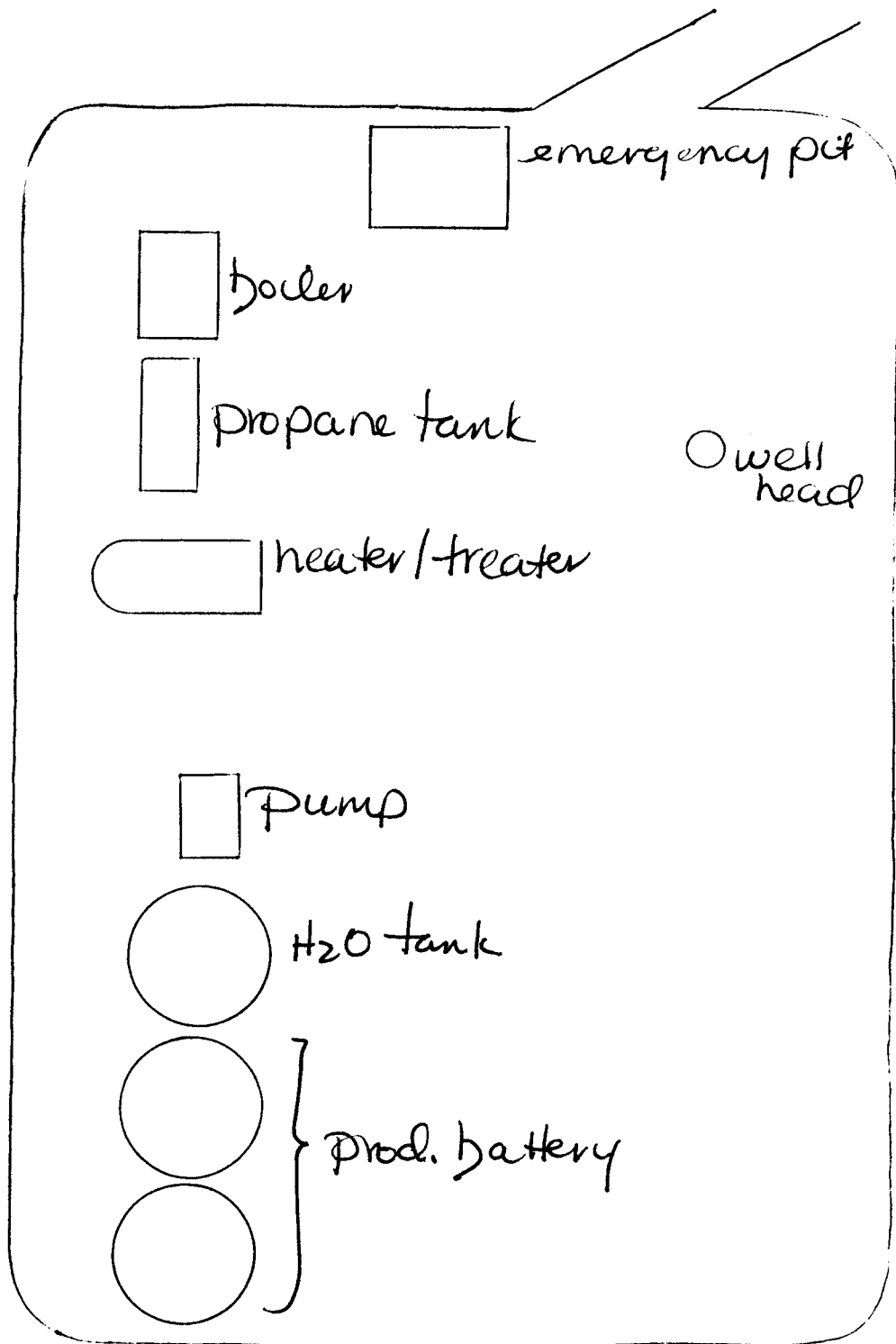
- CHECK DISTANCE TO NEAREST WELL.
- CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.
- IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER
- IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.
- VERIFY LEGAL AND SUFFICIENT DRILLING WATER

P.U. 20-2

Sec 20, T15, R1E
(3rd loc sec 17)

Embly 12/5/88

L N



December 16, 1983

Rio Bravo Oil Company
30th Floor
201 Mission Street
San Francisco, California 94105

RE: Well No. RU-20-2
(Surface) SESW 17, T. 1S, R. 1E
242' FSL, 2459' FWL
BHL) ~~RU-20~~ 20, T. 1S, R. 1E
660' FNL, 1980' FWL
Uintah County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure. Prior to spudding, a copy of the Utah Division of Water Rights (Phone No. 801-533-6071) approval for use or purchase of drilling water must be submitted to this office, otherwise this approval is void.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Chief Petroleum Engineer
Office: 533-5771
Home: 571-6068

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-047-31422.

Sincerely,


R. J. Firth
Chief Petroleum Engineer

RJB/as

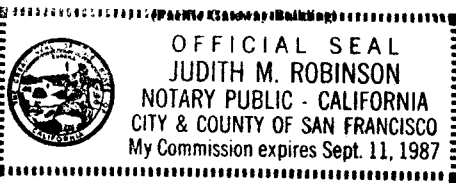
cc: Branch of Fluid Minerals
Bureau of Indian Affairs

STATE OF CALIFORNIA
City and County of San Francisco

} s.s.

On this 27th day of December in the year One Thousand Nine Hundred and Eighty Three
before me, **JUDITH M. ROBINSON**, a Notary Public in and for the City and County of San Francisco, State of California, personally appeared

R. A. Berger



personally known to me (or proved to me on the basis of satisfactory evidence) to be the person who executed the within instrument as president (or secretary) or on behalf of the Corporation therein named and acknowledged to me that the Corporation executed it.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal at my office in the City and County of San Francisco, the day and year in this certificate first above written.

Corporation

Judith M. Robinson
Notary Public in and for the City and County of San Francisco, State of California.

My Commission Expires September 11, 1987

It is understood that this Agreement does not constitute a conveyance in fee or any part of the premises hereinabove described.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the 27th day of December, 1983.

BRAVO OIL COMPANY, in Utah d/b/a/
RIO BRAVO OIL COMPANY

GRANTOR:

BY R. A. Berger
R. A. Berger, Vice-President

BY Wanda Russell Heckford

STATE OF UTAH)
) ss.
COUNTY OF _____)

On this 9th day of Jan, 1984, before me _____,
a Notary Public in and for said County, _____

personally appeared _____, known to me to be the identical person described in and who executed the within and foregoing instrument, and acknowledged to me that he executed the same as his free and voluntary act and deed for the purpose and consideration therein expressed.

IN WITNESS WHEREOF I have hereunto set my official signature and affixed by notarial seal the day and year first above written.

Glenna Brotherson
Notary Public
Residing at 74. Duquesne
Utah

My Commission Expires:
MY COMMISSION EXPIRES
3-6-87

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

reverse side)

5. Lease Designation and Serial No.
Surface Location Fee
Bottom Hole Location Tribal

6. If Indian, Allottee or Tribe Name
1-109-IND-5247

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
DRILL DEEPEN PLUG BACK

b. Type of Well
Oil Well Gas Well Other
Single Zone Multiple Zone

2. Name of Operator
Rio Bravo Oil Company

3. Address of Operator
Bravo Oil Co., 30th Floor, 201 Mission St. San Francisco, CA

4. Location of Well (Report location clearly and in accordance with any State requirements.)*
At surface 2457' FWL 242' FSL, Sec. 17, T1S, R1E, U.S.M. 94105

At proposed prod. zone
Bottom Hole Location '1980 FWL - 660' FNL-Tribal Sec 20, T1S, R1E, U.S.M.

14. Distance in miles and direction from nearest town or post office*
12 1/2 miles Northeast of Roosevelt, Utah U.S.M.

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any) 242'
16. No. of acres in lease 3412
17. No. of acres assigned to this well 40

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft. 3300'
19. Proposed depth 10,400 (Green River Form.)
20. Rotary or cable tools Rotary

21. Elevations (Show whether DF, RT, GR, etc.) GR-5479'
22. Approx. date work will start* Dec. 16, 1983

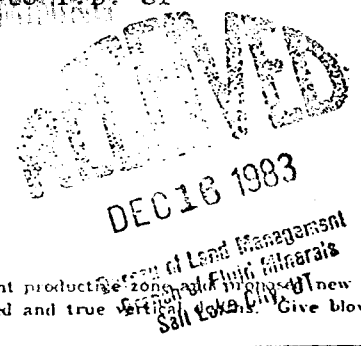
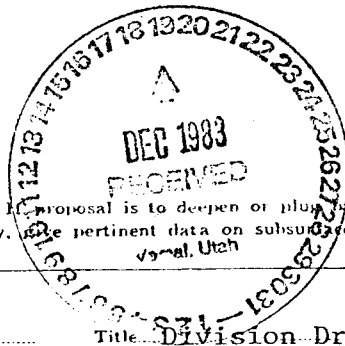
23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
26"	20"	94# H40	80'	To surface
14-3/4"	10-3/4"	40.5# H-40 STC	2500'	To surface
9-7/8"	7"	23-26#	10,400'	1530 SX

Proposed Green River Formation Completion..

See Proposed Drilling Program Attached.

Note: Directionally drilling will begin at approximately 7,700' to T.D. of 10,400' with 9-7/8" hole.



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and fluid characteristics. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical. Give blowout preventer program, if any.

24. Signed: *B.L. Stahan* Title: Division Drilling Engineer Date: 12/14/83

(This space for Federal or State office use)

Permit No. _____ Approval Date _____

Approved by: *A. Ferguson* Title: DISTRICT MANAGER Date: 12-23-83

Conditions of approval, if any:

CONDITIONS OF APPROVAL AT A FEELERS... OPERATOR'S COPY See Instructions On Reverse Side

State Oil & Gas

Waltok

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: RIO BRAVO OIL COMPANY

WELL NAME: RU 20-2

SECTION (^{NENW} BHL) 20 TOWNSHIP 1S RANGE 1E COUNTY Uintah

DRILLING CONTRACTOR V C

RIG # 13

SPUDDED: DATE 12-30-83

TIME 11:00 PM

How Rotary

DRILLING WILL COMMENCE _____

REPORTED BY John Butler

TELEPHONE # 789-6204

DATE 1-3-84 SIGNED RJF

✓
BHL from Recitation Ave. -
Sec. 20: 887' PNL, 7370' FWZ, NENW

DOUBLE "D" ENTERPRISES

B.O.P. Test Report

B.O.P. TEST PERFORMED ON (DATE)..... 1-8-84
OIL CO.: Rio Bravo Oil
WELL NAME & NUMBER..... Roosevelt Unit 20-2
SECTION..... 20
TOWNSHIP..... 15
RANGE..... 1E
COUNTY..... Uintah, Utah
DRILLING CONTRACTOR..... Vierson - Cochran (13)

INVOICES BILLED FROM: **DOUBLE "D" ENTERPRISES, INC.**
213 Pine Street - Box 560
Shoshoni, Wyoming 82649
Phone: (307) 876-2308 or (307) 876-2234

TESTED BY: **DOUBLE "D" ENTERPRISES, INC.**
712 Morse Lee Street
Evanston, Wyoming 82930
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE..... bhw BUTLER
RIG TOOL PUSHER..... Dennis Jamison
TESTED OUT OF..... Evanston, Wyo
NOTIFIED PRIOR TO TEST: State of Utah

COPIES OF THIS TEST REPORT SENT COPIES TO: State of Utah
..... BIM (keval)
..... Oil Co. site Rep

ORIGINAL CHART & TEST REPORT ON FILE AT: Evanston, Wyo OFFICE

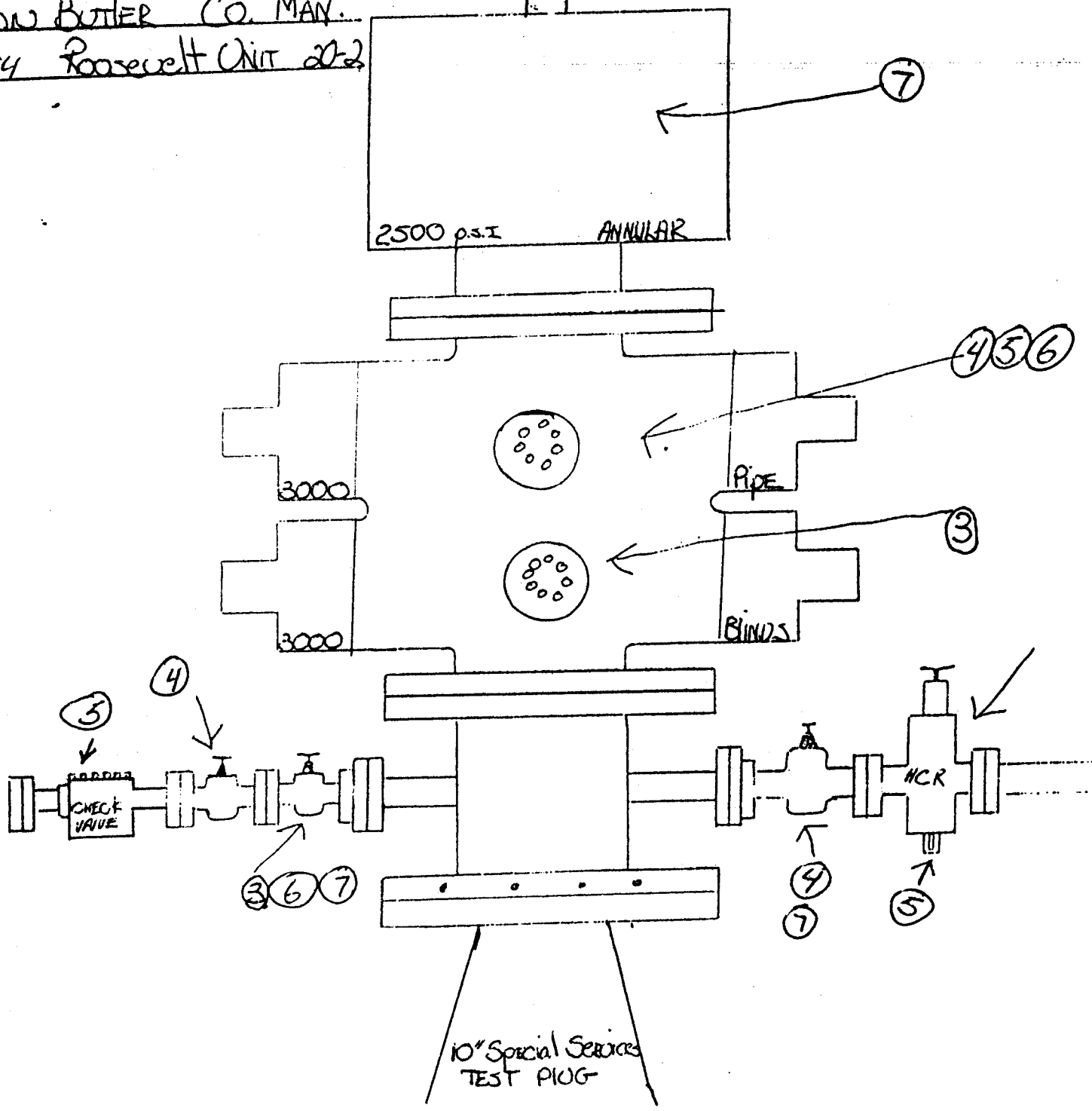
Company	Lease and Well Name	Date of Test	Rig #
Rio Bravo	Roosevelt Unit 20-2	1-8-84	V.C. 13
Test #	Time		
	9:30 pm.	Attempt to open doors to change RAMS - KOOMEY won't work	
①	10:45 pm - 11:00 pm	Outside. Manuals on manifold. @ 3000 p.s.i.	
②	11:04 - 11:19	Superchoke @ 3000 p.s.i.	
	11:20 - 2:45 A.M.	Koomey finally pressures up - change RAMS, RIG up to test - SET PLUG.....	
③	2:50 A.M. - 3:05	Blinds, 1 st manual on kill line @ 3000 p.s.i.	
④	3:06 - 3:33 A.M.	Pipe Rams, 2 nd manual on kill line, 1 st manual on choke line. (Koomey took 1/2 min to get on line.)	
⑤	3:37 - 52	Pipe Rams, CHECK VALVE, H.C.R. VALVE @ 3000	
⑥	3:57 - 4:12	Pipe Rams, 1 st manual on kill line, RISER Valve on choke manifold. @ 3000	
⑦	4:15 AM 6:00 AM	ANNULAR @ 2500 p.s.i. (again koomey will not accumulate pressure quickly - Tool pusher eventually got things RUNNING - correctly - koomey ok, Hydral closes in about 5 sec. good test @ 2500 p.s.i.	
	6:01 AM 16	Kelly up -	
⑧	6:17 AM - 32	Safety or floor valve @ 3000 p.s.i.	
⑨	33 - 6:56	Attempt Upper Kelly - work - flush - still NO TEST notify pusher and Co. man. (pusher will change out Upper Kelly immediately.)	

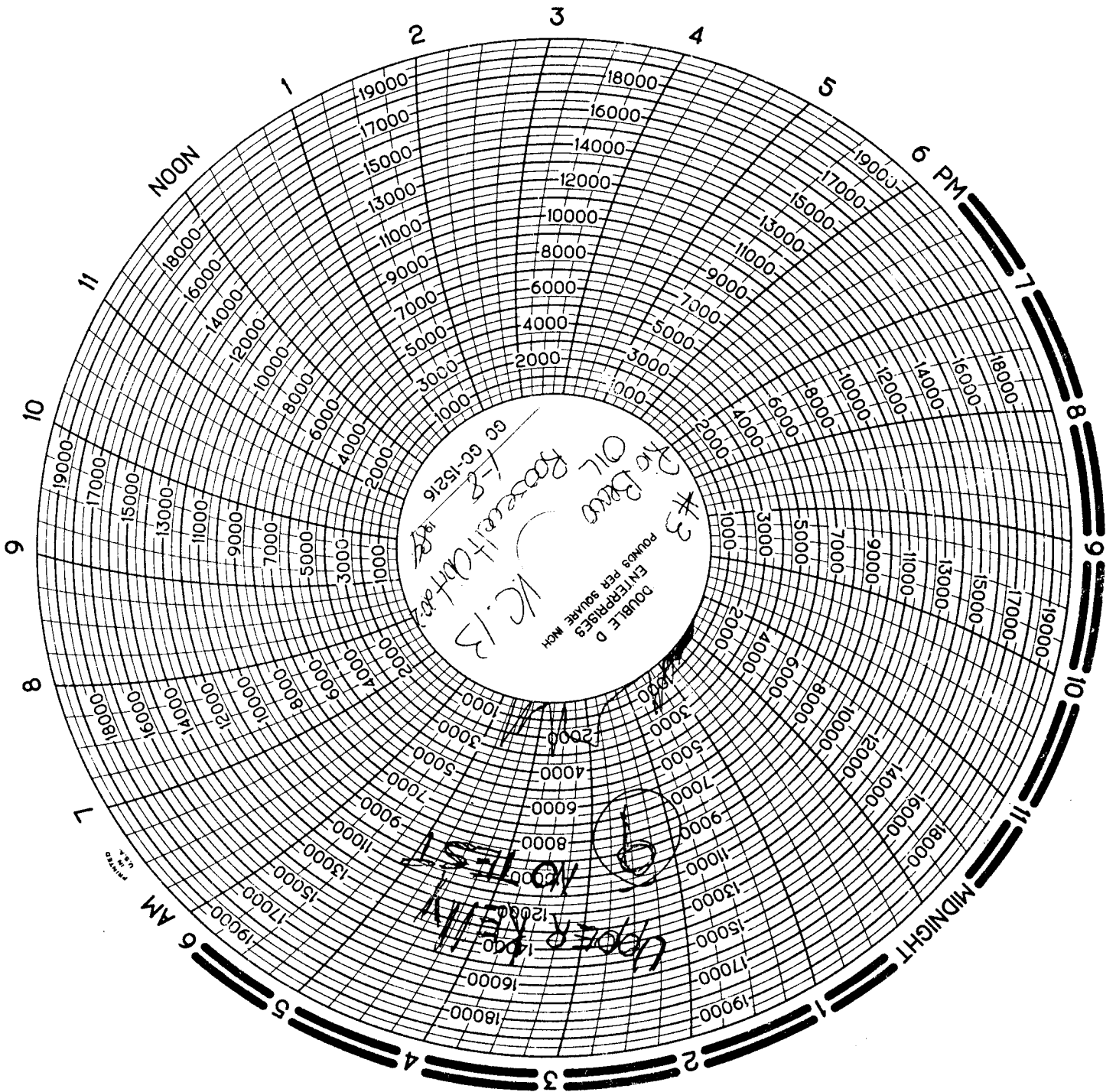
Rio Bravo Oil V.C. 1

John Butler Co. MAN.

1-8-84 Roosevelt Unit 272

TEST SOURCE 4-7

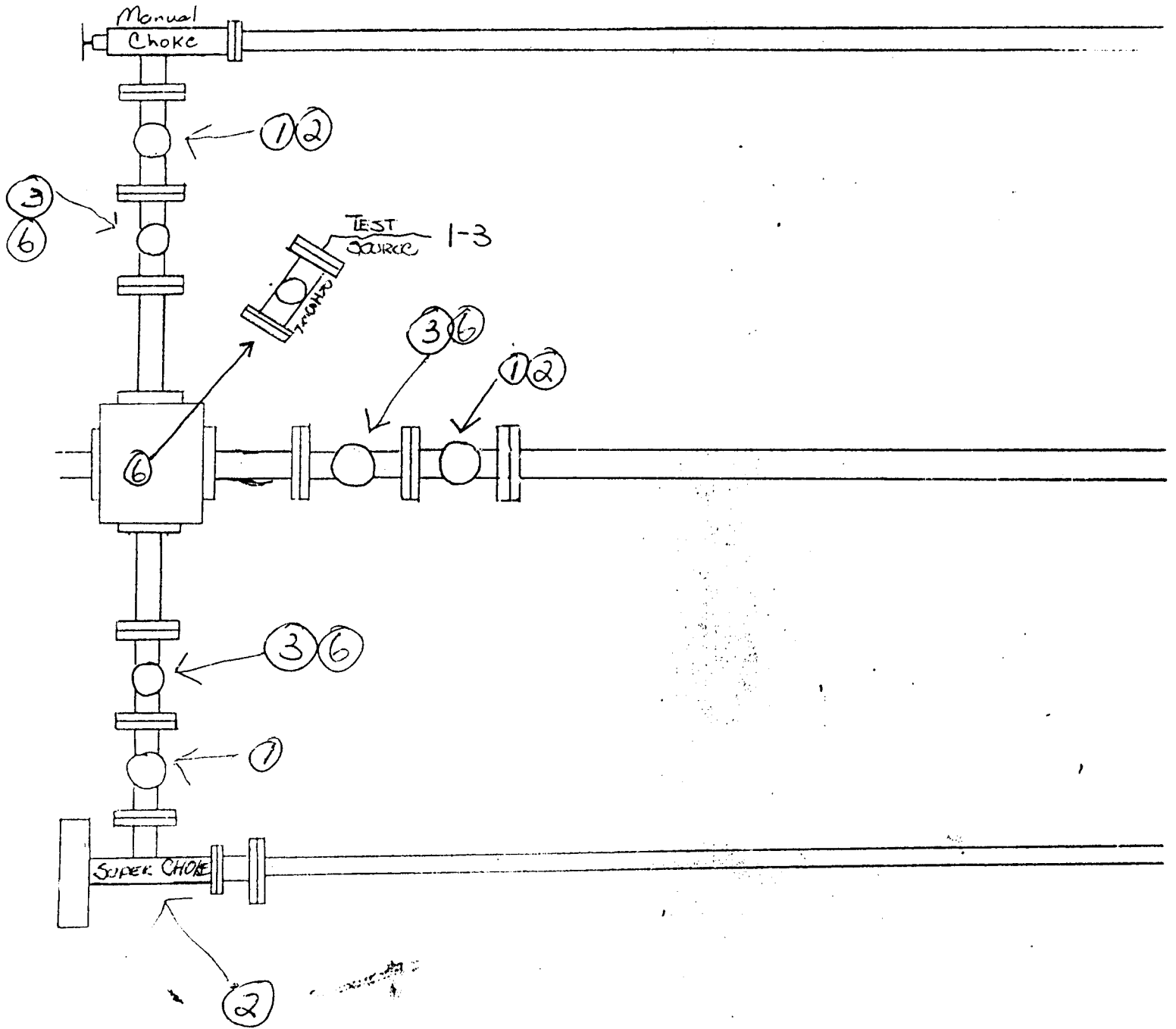


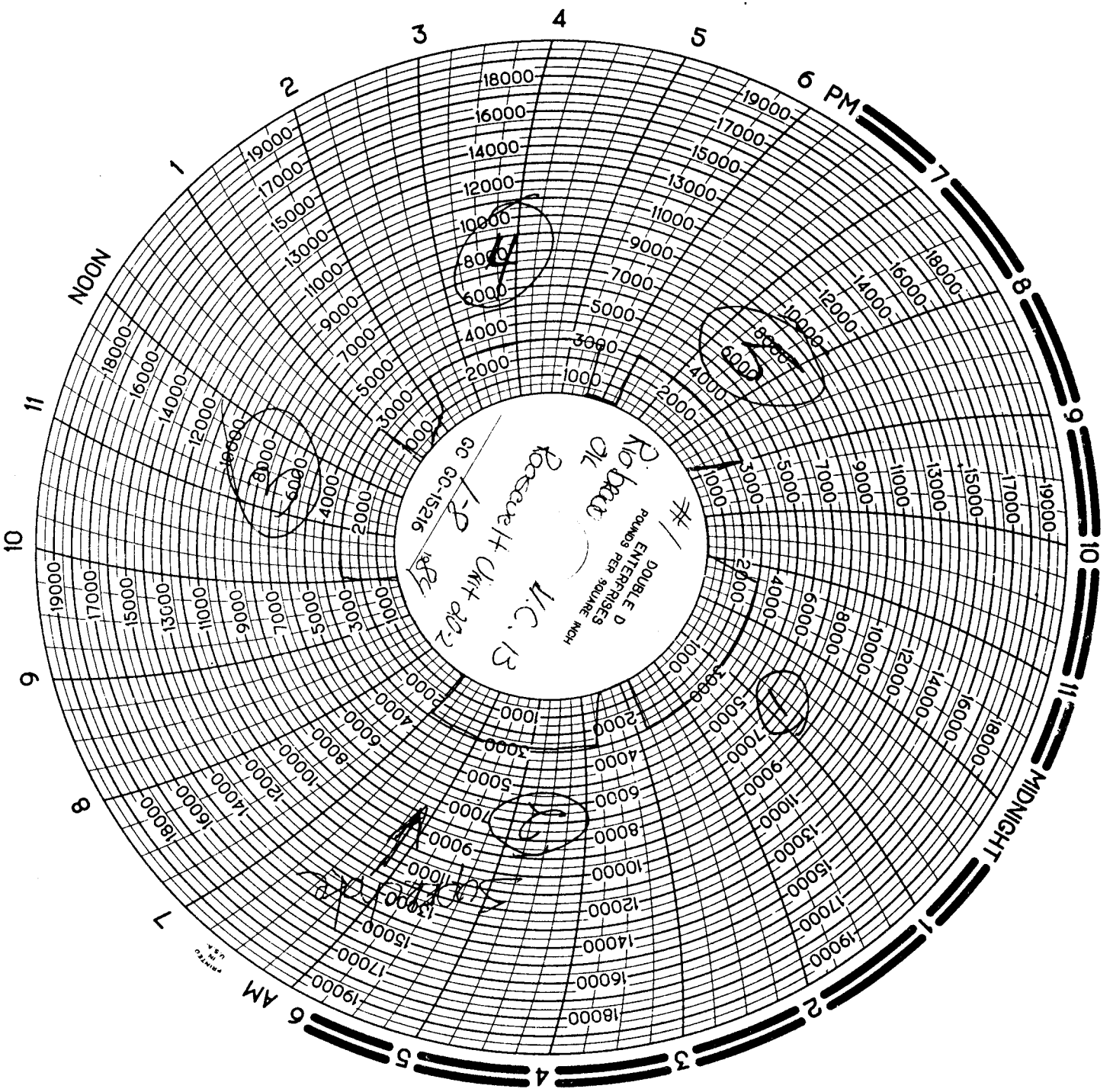


Rio Bravo Oil 10.13

John BUTLER, Co. MAN.

1-8-84 Roosevelt UNIT 20-2





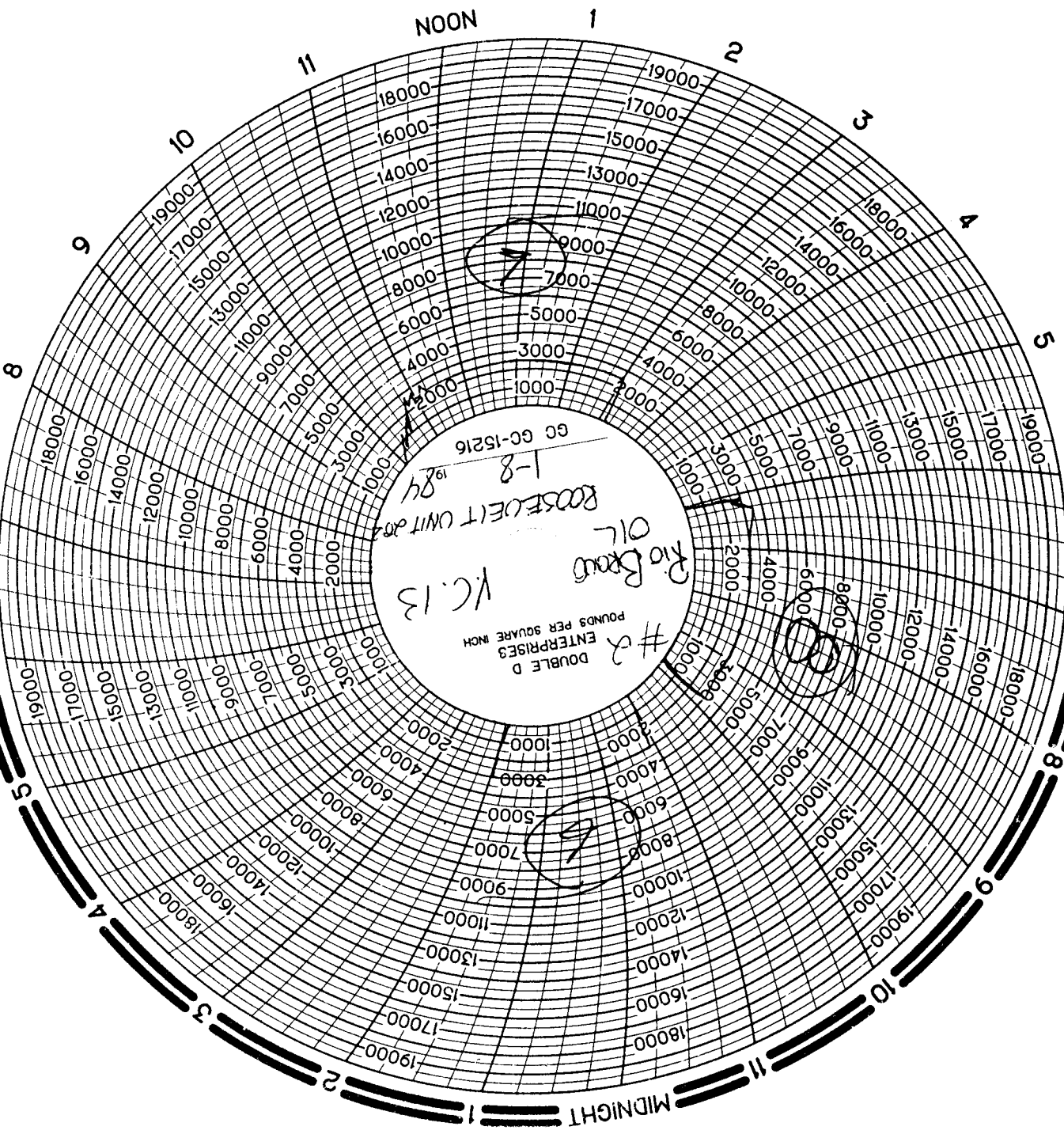
#1
 DOUBLE D
 ENTERPRISES
 POUNDS PER SQUARE INCH
 L.C. 13
 Brewer/H UNIT 202
 60 60-15216
 RBY

19000
 17000
 15000
 13000
 11000
 9000
 7000
 5000
 3000
 1000

PRINTED
U.S.A.

7 AM

6 AM



GC GC-15216

1-8
1984
ROOSEVELT UNIT #2

KC.13

DOUBLE D
ENTERPRISES
POUNDS PER SQUARE INCH

#2
Rio Grand
OIL



EASEMENT AGREEMENT AND
DAMAGE RELEASE

THIS AGREEMENT, made and entered in to by and between Wanda Russell Hackford

of Rescue Utah State Rt 200 W. R. H. P.

hereinafter referred to as "GRANTOR" and Bravo Oil, in Utah d/b/a

Rio Bravo Oil Company,

hereinafter referred to as Bravo Oil

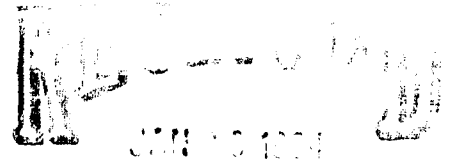
W I T N E S S E T H :

THAT GRANTOR, for and in consideration of the sum of Ten and More Dollars (10.00 and more) and other good and valuable consideration, cash to GRANTOR in hand paid by Bravo Oil, the receipt and sufficiency of which are hereby acknowledged, does hereby grant to Bravo Oil for the benefit of Bravo Oil and its employees, agents contractors, successors and assigns, the following described lands situated in Uintah County, State of Utah, to wit:

RIGHT-OF-WAY AND EASEMENT:

Four (4) acres SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 17 T1S0 R1E USM

For Drill site and Tank Battery



**DIVISION OF
OIL GAS & MINING**

Bravo Oil may use said premises described under the above subparagraph to construct, maintain and use a road of the character sufficient for the purposes of transporting equipment, materials, production and personnel in connection with exploring, drilling, operating, producing and marketing oil, gas, and associated hydrocarbons and any other fluid or substance associated with the production of oil or gas, and for the purpose of constructing, maintaining and operating pipelines, power lines and communication lines together with such valves, fittings, meters and other appurtenances as may be necessary or convenient to the operation of said lines.

Bravo Oil TO HAVE AND TO HOLD the premises described under the above subparagraph for the purpose and purposes above set forth for the term of ten (10) years from the date hereof and so long thereafter as the lands, subject to this Agreement or any part thereof, are used for or in connection with any of the aforesaid operations.

The consideration recited hereinabove is also paid and accepted as complete settlement for any and all damages thereto for the full term hereof.

Bravo Oil shall have and is granted all other rights and privileges necessary or convenient for the full enjoyment or use of the rights herein granted

Bravo Oil shall have the right to remove from the leased premises, at any time during the term hereof or within three (3) months after the termination hereof, any or all structures, pipes, equipment and other facilities placed on, over, under, through and across any lands covered hereby, and title hereto shall be vested in Bravo Oil at all times, and shall in no event be considered or construed as fixtures thereto.

Bravo Oil agrees to pay any excess taxes that may be assessed directly or indirectly against any lands covered by this Agreement because of the existence of erected facilities placed or constructed thereupon by Bravo Oil

Bravo Oil shall have the right to assign all or any part of the rights herein granted.

The terms, conditions and provisions for the Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, personal representatives, successors and assigns.

GRANTOR warrants and covenants that it is the owner of the lands covered hereby and that said lands are free and clear of all encumbrances and liens of whatsoever character, except those of record, and except taxes and assessments not yet due.

Bravo Oil agrees to save and hold GRANTOR harmless from the claims and demands of all persons whomsoever for damages caused by Bravo Oil's exercise of their rights herein granted.

DIPLOG

Company RIO BRAVO *1S 1E Sec 17 Uintah*

Well 20 - 2 RU

Field ROOSEVELT FIELD Date 3-16-84

County UINTAH State UTAH

RIO BRAVO
 20-2 RU
 ROOSEVELT FIELD
 UINTAH
 02-26-84

DIP348

UTAH

INTERVAL 5900.0 TO 10700.0

RUN 1 RLAC 348.

ENGINEER RALL/TIJERINA

MAG DEC 14.

 * SEARCH 6 IN WINDOW 8' STEP 2' *
 * *
 * 4 0 0 0 2 *

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE***			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
6008.0	8.00	0.3	177	S 3 E	100	1.0	176	S 4 E		
6012.0	8.00	2.6	20	N 20 E	100	1.0	178	S 2 E		
6014.0	8.00	3.1	19	N 19 E	100	1.0	177	S 3 E		
6016.0	8.00	7.4	311	N 49 W	100	1.1	178	S 2 E		
6018.0	8.00	8.5	335	N 25 W	79	1.0	175	S 5 E		
6020.0	8.00	4.4	295	N 65 W	100	1.1	179	S 1 E		
6022.0	8.00	3.6	314	N 46 W	100	1.0	183	S 3 W		
6024.0	8.00	2.7	272	N 88 W	100	1.0	182	S 2 W		
6028.0	8.00	2.8	359	N 1 W	92	1.0	180	S 0 E		
6032.0	8.00	3.5	28	N 28 E	100	1.0	182	S 2 W		
6036.0	8.00	2.9	22	N 22 E	76	1.1	179	S 1 E		
6040.0	8.00	3.1	19	N 19 E	100	1.1	182	S 2 W		
6042.0	8.00	3.7	1	N 1 E	100	1.1	182	S 2 W		
6044.0	8.00	2.2	0	N 0 E	100	1.1	180	S 0 E		
6054.0	8.00	0.7	294	N 66 W	100	1.0	181	S 1 W		
6058.0	8.00	0.1	325	N 35 W	100	1.0	183	S 3 W		
6060.0	8.00	0.2	275	N 85 W	100	1.1	182	S 2 W		
6072.0	8.00	1.1	315	N 45 W	100	1.1	183	S 3 W		
6074.0	8.00	2.0	313	N 47 W	100	1.0	183	S 3 W		
6076.0	8.00	1.6	308	N 52 W	100	1.0	183	S 3 W		
6078.0	8.00	0.7	304	N 56 W	100	1.0	183	S 3 W		
6082.0	8.00	7.8	81	N 81 E	100	1.0	184	S 4 W		
6084.0	8.00	4.9	78	N 78 E	100	1.0	184	S 4 W		
6086.0	8.00	6.0	76	N 76 E	100	1.0	184	S 4 W		
6088.0	8.00	3.5	83	N 83 E	100	1.0	183	S 3 W		
6094.0	8.00	0.8	5	N 5 E	100	1.0	187	S 7 W		
6096.0	8.00	1.2	31	N 31 E	100	1.0	186	S 6 W		
6098.0	8.00	1.3	28	N 28 E	100	1.0	185	S 5 W		
6102.0	8.00	0.4	318	N 42 W	100	1.0	187	S 7 W		

RIO BRAVO
20-2 RU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

UTAH

DEPTH	WL.	**FORMATION DIP**				GRADE	***BOREHOLE***			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
6104.0	8.00	0.6	287	N 73 W	100	1.0	186	S 6 W		
6106.0	8.00	0.4	303	N 57 W	100	0.9	187	S 7 W		
6108.0	8.00	1.2	357	N 3 W	100	1.0	191	S 11 W		
6110.0	8.00	1.1	20	N 20 E	100	1.0	191	S 11 W		
6112.0	8.00	0.7	53	N 53 E	100	1.0	190	S 10 W		
6114.0	8.00	0.5	20	N 20 E	100	1.0	189	S 9 W		
6116.0	8.00	1.0	350	N 10 W	100	1.0	189	S 9 W		
6118.0	8.00	2.3	308	N 52 W	100	1.0	188	S 8 W		
6120.0	8.00	1.7	357	N 3 W	100	1.0	188	S 8 W		
6122.0	8.00	3.1	359	N 1 W	100	1.0	188	S 8 W		
6124.0	8.00	2.8	6	N 6 E	100	0.9	190	S 10 W		
6126.0	8.00	1.3	78	N 78 E	100	0.9	188	S 8 W		
6128.0	8.00	1.4	348	N 12 W	100	1.0	191	S 11 W		
6130.0	8.00	1.5	335	N 25 W	100	0.9	187	S 7 W		
6132.0	8.00	1.8	325	N 35 W	100	0.9	187	S 7 W		
6134.0	8.00	1.8	328	N 32 W	100	0.9	188	S 8 W		
6136.0	8.00	1.2	338	N 22 W	100	0.9	187	S 7 W		
6138.0	8.00	1.8	314	N 46 W	100	1.0	184	S 4 W		
6140.0	8.00	1.1	306	N 54 W	100	0.9	186	S 6 W		
6142.0	8.00	1.4	313	N 47 W	100	0.9	186	S 6 W		
6144.0	8.00	1.4	328	N 32 W	100	0.9	187	S 7 W		
6146.0	8.00	1.2	342	N 18 W	100	0.9	186	S 6 W		
6148.0	8.00	1.7	326	N 34 W	100	1.0	189	S 9 W		
6150.0	8.00	2.2	334	N 26 W	100	1.0	187	S 7 W		
6152.0	8.00	2.3	322	N 38 W	100	1.0	186	S 6 W		
6154.0	8.00	2.5	315	N 45 W	100	1.0	185	S 5 W		
6156.0	8.00	2.0	307	N 53 W	100	1.0	190	S 10 W		
6158.0	8.00	1.8	319	N 41 W	100	1.0	187	S 7 W		
6160.0	8.00	1.2	11	N 11 E	100	1.0	192	S 12 W		
6162.0	8.00	5.6	211	S 31 W	100	1.0	188	S 8 W		
6164.0	8.00	1.7	283	N 77 W	100	1.0	192	S 12 W		
6166.0	8.00	2.2	313	N 47 W	100	1.0	191	S 11 W		
6168.0	8.00	1.4	313	N 47 W	100	1.0	191	S 11 W		
6174.0	8.00	0.9	40	N 40 E	100	1.0	193	S 13 W		
6180.0	8.00	1.4	352	N 8 W	100	1.1	192	S 12 W		
6182.0	8.00	1.0	313	N 47 W	100	1.2	194	S 14 W		
6186.0	8.00	1.7	330	N 30 W	100	1.1	196	S 16 W		
6188.0	8.00	2.2	349	N 11 W	100	1.1	193	S 13 W		
6190.0	8.00	2.6	338	N 22 W	100	1.1	194	S 14 W		
6192.0	8.00	2.6	337	N 23 W	100	1.1	194	S 14 W		

RIO BRAVO
 20-2 RU
 ROOSEVELT FIELD
 UINTAH
 02-26-84

DIP348

UTAH

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE***		
		ANG	AZ	BEARING	DA		DAZ	BEARING	
6194.0	8.00	2.5	312	N 48 W	100	1.1	193	S 13 W	
6196.0	8.00	1.3	315	N 45 W	100	1.1	193	S 13 W	
6222.0	8.00	0.5	6	N 6 E	100	1.3	198	S 18 W	
6232.0	8.00	0.7	352	N 8 W	100	1.2	202	S 22 W	
6234.0	8.00	0.6	330	N 30 W	100	1.3	203	S 23 W	
6236.0	8.00	0.9	301	N 59 W	100	1.3	201	S 21 W	
6238.0	8.00	2.8	278	N 82 W	100	1.2	203	S 23 W	
6240.0	8.00	4.1	285	N 75 W	100	1.2	202	S 22 W	
6242.0	8.00	2.0	290	N 70 W	100	1.2	201	S 21 W	
6244.0	8.00	1.2	344	N 16 W	100	1.2	204	S 24 W	
6248.0	8.00	2.0	14	N 14 E	100	1.2	200	S 20 W	
6250.0	8.00	1.5	353	N 7 W	100	1.2	200	S 20 W	
6252.0	8.00	1.7	332	N 28 W	100	1.2	200	S 20 W	
6254.0	8.00	1.8	323	N 37 W	100	1.2	200	S 20 W	
6256.0	8.00	1.5	322	N 38 W	100	1.2	200	S 20 W	
6258.0	8.00	1.6	335	N 25 W	100	1.2	200	S 20 W	
6260.0	8.00	1.3	341	N 19 W	100	1.2	201	S 21 W	
6262.0	8.00	1.4	340	N 20 W	100	1.2	201	S 21 W	
6264.0	8.00	1.6	355	N 5 W	100	1.1	199	S 19 W	
6266.0	8.00	1.8	3	N 3 E	100	1.2	203	S 23 W	
6268.0	8.00	1.6	2	N 2 E	100	1.2	197	S 17 W	
6270.0	8.00	2.2	313	N 47 W	100	1.2	198	S 18 W	
6272.0	8.00	2.4	305	N 55 W	100	1.1	196	S 16 W	
6274.0	8.00	1.6	327	N 33 W	100	1.1	197	S 17 W	
6276.0	8.00	1.7	332	N 28 W	100	1.2	195	S 15 W	
6282.0	8.00	2.7	352	N 8 W	100	1.2	196	S 16 W	
6284.0	8.00	2.5	351	N 9 W	100	1.2	196	S 16 W	
6286.0	8.00	2.3	350	N 10 W	100	1.2	196	S 16 W	
6296.0	8.00	0.9	301	N 59 W	100	1.1	195	S 15 W	
6298.0	8.00	0.7	268	S 88 W	100	1.1	195	S 15 W	
6300.0	8.00	1.5	254	S 74 W	100	1.1	195	S 15 W	
6302.0	8.00	0.5	127	S 53 E	100	1.1	195	S 15 W	
6304.0	8.00	1.2	110	S 70 E	100	1.1	195	S 15 W	
6306.0	8.00	0.4	332	N 28 W	100	1.1	195	S 15 W	
6308.0	8.00	0.8	340	N 20 W	100	1.1	195	S 15 W	
6310.0	8.00	2.2	348	N 12 W	100	1.1	196	S 16 W	
6312.0	8.00	1.6	337	N 23 W	100	1.1	192	S 12 W	
6316.0	8.00	1.5	334	N 26 W	100	1.1	191	S 11 W	
6320.0	8.00	1.3	330	N 30 W	100	1.1	194	S 14 W	
6322.0	8.00	1.4	332	N 28 W	100	1.1	191	S 11 W	

RIO BRAVO

DIP348

20-2 RIJ

ROOSEVELT FIELD

UINTAH

UTAH

02-26-84

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE****			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
6324.0	8.00	1.3	332	N 28 W	100	1.1	192	S 12 W		
6326.0	8.00	1.2	330	N 30 W	100	1.1	193	S 13 W		
6328.0	8.00	1.6	328	N 32 W	100	1.0	190	S 10 W		
6332.0	8.00	1.6	333	N 27 W	100	1.1	190	S 10 W		
6334.0	8.00	2.3	340	N 20 W	100	1.1	191	S 11 W		
6342.0	8.00	1.1	2	N 2 E	100	1.0	186	S 6 W		
6350.0	8.00	1.0	21	N 21 E	100	1.0	184	S 4 W		
6354.0	8.00	1.3	324	N 36 W	100	1.1	187	S 7 W		
6368.0	8.00	0.8	302	N 58 W	100	1.1	174	S 6 E		
6370.0	8.00	1.1	303	N 57 W	100	1.1	173	S 7 E		
6374.0	8.00	1.2	311	N 49 W	100	1.2	171	S 9 E		
6382.0	8.00	2.1	1	N 1 E	100	1.2	172	S 8 E		
6384.0	8.00	2.0	0	N 0 E	100	1.2	171	S 9 E		
6388.0	8.00	0.0	66	N 66 E	91	1.2	170	S 10 E		
6390.0	8.00	0.4	271	N 89 W	100	1.3	168	S 12 E		
6396.0	8.00	1.4	316	N 44 W	100	1.2	172	S 8 E		
6412.0	8.00	1.1	273	N 87 W	100	1.2	167	S 13 E		
6414.0	8.00	1.2	291	N 69 W	100	1.1	170	S 10 E		
6416.0	8.00	2.3	274	N 86 W	100	1.2	172	S 8 E		
6418.0	8.00	2.4	275	N 85 W	100	1.1	169	S 11 E		
6420.0	8.00	2.2	280	N 80 W	100	1.2	170	S 10 E		
6422.0	8.00	2.6	272	N 88 W	100	1.2	169	S 11 E		
6424.0	8.00	2.0	284	N 76 W	100	1.2	170	S 10 E		
6426.0	8.00	1.6	274	N 86 W	100	1.3	169	S 11 E		
6428.0	8.00	1.7	261	S 81 W	100	1.2	168	S 12 E		
6432.0	8.00	1.3	286	N 74 W	100	1.2	169	S 11 E		
6434.0	8.00	1.6	303	N 57 W	100	1.3	171	S 9 E		
6436.0	8.00	1.0	293	N 67 W	100	1.2	167	S 13 E		
6440.0	8.00	1.5	313	N 47 W	100	1.2	163	S 17 E		
6442.0	8.00	1.5	304	N 56 W	100	1.2	166	S 14 E		
6444.0	8.00	1.2	291	N 69 W	100	1.2	167	S 13 E		
6446.0	8.00	1.7	290	N 70 W	100	1.2	167	S 13 E		
6448.0	8.00	1.0	282	N 78 W	100	1.2	166	S 14 E		
6450.0	8.00	1.5	253	S 73 W	100	1.2	166	S 14 E		
6452.0	8.00	0.4	104	S 76 E	100	1.2	165	S 15 E		
6456.0	8.00	1.6	303	N 57 W	100	1.2	165	S 15 E		
6458.0	8.00	3.2	261	S 81 W	100	1.2	165	S 15 E		
6460.0	8.00	3.2	257	S 77 W	100	1.2	165	S 15 E		
6462.0	8.00	1.9	278	N 82 W	100	1.2	167	S 13 E		
6464.0	8.00	0.6	227	S 47 W	100	1.2	167	S 13 E		

RIO BRAVO
20-2 RU

DIP348

ROOSEVELT FIELD

UINTAH

UTAH

02-26-84

DEPTH	WL	**FORMATION DIP**			GRADE	***BOREHOLE***		
		ANG	AZ	BEARING		DA	DAZ	BEARING
6466.0	8.00	0.3	222	S 42 W	100	1.2	168	S 12 E
6468.0	8.00	0.4	256	S 76 W	100	1.2	170	S 10 E
6470.0	8.00	0.7	263	S 83 W	100	1.2	170	S 10 E
6472.0	8.00	0.7	257	S 77 W	100	1.1	172	S 8 E
6478.0	8.00	0.4	211	S 31 W	100	1.1	169	S 11 E
6480.0	8.00	0.8	233	S 53 W	100	1.2	169	S 11 E
6490.0	8.00	0.1	149	S 31 E	100	1.2	167	S 13 E
6494.0	8.00	0.5	265	S 85 W	100	1.1	172	S 8 E
6496.0	8.00	0.4	187	S 7 W	100	1.1	172	S 8 E
6498.0	8.00	2.3	146	S 34 E	100	1.2	171	S 9 E
6500.0	8.00	2.7	177	S 3 E	100	1.1	174	S 6 E
6502.0	8.00	1.2	188	S 8 W	100	1.1	170	S 10 E
6504.0	8.00	1.4	203	S 23 W	100	1.1	171	S 9 E
6506.0	8.00	1.1	188	S 8 W	100	1.1	177	S 3 E
6508.0	8.00	1.5	170	S 10 E	100	1.1	177	S 3 E
6510.0	8.00	1.7	146	S 34 E	100	1.1	183	S 3 W
6512.0	8.00	2.0	127	S 53 E	100	1.2	185	S 5 W
6514.0	8.00	2.3	118	S 62 E	100	1.2	188	S 8 W
6516.0	8.00	0.2	275	N 85 W	100	1.2	189	S 9 W
6518.0	8.00	3.7	297	N 63 W	100	1.2	188	S 8 W
6520.0	8.00	3.8	285	N 75 W	100	1.3	192	S 12 W
6522.0	8.00	3.9	288	N 72 W	100	1.2	192	S 12 W
6524.0	8.00	4.1	277	N 83 W	100	1.2	190	S 10 W
6526.0	8.00	2.3	252	S 72 W	100	1.2	190	S 10 W
6528.0	8.00	2.0	236	S 56 W	100	1.3	192	S 12 W
6530.0	8.00	1.0	230	S 50 W	100	1.3	193	S 13 W
6532.0	8.00	0.7	279	N 81 W	100	1.3	190	S 10 W
6534.0	8.00	1.1	253	S 73 W	100	1.3	191	S 11 W
6536.0	8.00	3.6	162	S 18 E	100	1.3	192	S 12 W
6538.0	8.00	1.3	206	S 26 W	100	1.3	189	S 9 W
6540.0	8.00	1.5	216	S 36 W	100	1.3	190	S 10 W
6542.0	8.00	1.9	195	S 15 W	100	1.2	192	S 12 W
6544.0	8.00	2.1	231	S 51 W	100	1.1	189	S 9 W
6546.0	8.00	2.4	261	S 81 W	100	1.2	186	S 6 W
6548.0	8.00	2.2	269	S 89 W	100	1.2	187	S 7 W
6550.0	8.00	1.5	229	S 49 W	100	1.2	186	S 6 W
6552.0	8.00	2.1	282	N 78 W	100	1.2	186	S 6 W
6554.0	8.00	1.8	231	S 51 W	100	1.2	184	S 4 W
6556.0	8.00	1.6	253	S 73 W	100	1.2	187	S 7 W
6558.0	8.00	1.4	263	S 83 W	100	1.2	184	S 4 W

RIO BRAVO
20-2 RU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

UTAH

DEPTH	WL.	**FORMATION DIP**				GRADE	***BOREHOLE***			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
6560.0	8.00	1.4	272	N 88 W	100	1.2	186	S 6 W		
6562.0	8.00	1.2	241	S 61 W	100	1.3	183	S 3 W		
6564.0	8.00	1.4	239	S 59 W	100	1.2	183	S 3 W		
6566.0	8.00	1.5	232	S 52 W	100	1.2	184	S 4 W		
6568.0	8.00	1.7	228	S 48 W	100	1.2	181	S 1 W		
6570.0	8.00	2.1	234	S 54 W	100	1.2	179	S 1 E		
6572.0	8.00	2.3	233	S 53 W	100	1.2	180	S 0 E		
6574.0	8.00	2.3	231	S 51 W	100	1.2	182	S 2 W		
6576.0	8.00	2.4	253	S 73 W	100	1.2	181	S 1 W		
6578.0	8.00	2.3	254	S 74 W	100	1.2	178	S 2 E		
6580.0	8.00	1.6	230	S 50 W	100	1.2	180	S 0 E		
6582.0	8.00	2.4	259	S 79 W	100	1.2	176	S 4 E		
6584.0	8.00	2.1	228	S 48 W	100	1.2	178	S 2 E		
6586.0	8.00	2.6	250	S 70 W	100	1.2	179	S 1 E		
6588.0	8.00	2.7	229	S 49 W	100	1.2	173	S 7 E		
6590.0	8.00	3.3	246	S 66 W	100	1.2	174	S 6 E		
6592.0	8.00	2.9	236	S 56 W	100	1.2	175	S 5 E		
6594.0	8.00	2.9	220	S 40 W	100	1.2	176	S 4 E		
6596.0	8.00	2.1	234	S 54 W	100	1.1	175	S 5 E		
6598.0	8.00	2.8	231	S 51 W	100	1.1	176	S 4 E		
6600.0	8.00	2.9	229	S 49 W	100	1.2	173	S 7 E		
6602.0	8.00	2.8	229	S 49 W	100	1.2	174	S 6 E		
6604.0	8.00	3.3	232	S 52 W	100	1.1	170	S 10 E		
6606.0	8.00	3.5	228	S 48 W	100	1.1	170	S 10 E		
6608.0	8.00	3.1	239	S 59 W	100	1.1	169	S 11 E		
6610.0	8.00	4.0	263	S 83 W	100	1.1	169	S 11 E		
6612.0	8.00	3.8	240	S 60 W	100	1.1	170	S 10 E		
6614.0	8.00	3.6	258	S 78 W	100	1.1	170	S 10 E		
6616.0	8.00	3.4	226	S 46 W	100	1.1	169	S 11 E		
6618.0	8.00	3.5	241	S 61 W	100	1.1	168	S 12 E		
6620.0	8.00	4.2	248	S 68 W	100	1.1	169	S 11 E		
6622.0	8.00	3.6	249	S 69 W	100	1.1	168	S 12 E		
6624.0	8.00	3.7	256	S 76 W	100	1.2	166	S 14 E		
6626.0	8.00	4.1	266	S 86 W	100	1.2	163	S 17 E		
6628.0	8.00	4.3	255	S 75 W	100	1.2	163	S 17 E		
6630.0	8.00	4.7	253	S 73 W	100	1.2	163	S 17 E		
6632.0	8.00	4.6	254	S 74 W	100	1.2	164	S 16 E		
6634.0	8.00	5.4	251	S 71 W	100	1.2	164	S 16 E		
6636.0	8.00	4.4	248	S 68 W	100	1.2	163	S 17 E		
6638.0	8.00	3.6	248	S 68 W	100	1.2	162	S 18 E		

RIO BRAVO
 20-2 RU
 ROOSEVELT FIELD
 UINTAH
 02-26-84

DIP348

UTAH

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE***		
		ANG	AZ	BEARING	DA		DAZ	BEARING	
6640.0	8.00	3.3	243	S 63 W	100	1.2	163	S 17 E	
6642.0	8.00	3.4	241	S 61 W	100	1.1	161	S 19 E	
6644.0	8.00	2.9	222	S 42 W	100	1.1	158	S 22 E	
6646.0	8.00	3.6	234	S 54 W	100	1.1	158	S 22 E	
6648.0	8.00	3.6	238	S 58 W	100	1.2	157	S 23 E	
6650.0	8.00	3.9	238	S 58 W	100	1.1	158	S 22 E	
6652.0	8.00	4.1	241	S 61 W	100	1.2	157	S 23 E	
6654.0	8.00	4.2	235	S 55 W	100	1.2	157	S 23 E	
6656.0	8.00	4.0	244	S 64 W	100	1.1	152	S 28 E	
6658.0	8.00	4.5	251	S 71 W	100	1.1	153	S 27 E	
6660.0	8.00	4.7	244	S 64 W	100	1.0	150	S 30 E	
6662.0	8.00	3.1	244	S 64 W	100	1.1	150	S 30 E	
6664.0	8.00	3.5	235	S 55 W	100	1.1	152	S 28 E	
6666.0	8.00	3.4	240	S 60 W	100	1.1	152	S 28 E	
6668.0	8.00	3.6	240	S 60 W	100	1.1	150	S 30 E	
6670.0	8.00	3.6	251	S 71 W	100	1.1	149	S 31 E	
6672.0	8.00	4.6	244	S 64 W	100	1.1	144	S 36 E	
6674.0	8.00	4.7	236	S 56 W	100	1.1	145	S 35 E	
6676.0	8.00	5.3	240	S 60 W	100	1.0	142	S 38 E	
6678.0	8.00	4.2	225	S 45 W	100	1.0	140	S 40 E	
6680.0	8.00	3.4	247	S 67 W	100	0.9	138	S 42 E	
6682.0	8.00	3.1	245	S 65 W	100	0.9	136	S 44 E	
6684.0	8.00	3.7	246	S 66 W	100	0.9	134	S 46 E	
6686.0	8.00	4.3	247	S 67 W	100	0.9	137	S 43 E	
6688.0	8.00	3.8	246	S 66 W	100	0.9	136	S 44 E	
6690.0	8.00	3.7	246	S 66 W	100	0.9	135	S 45 E	
6692.0	8.00	3.8	253	S 73 W	100	0.9	134	S 46 E	
6694.0	8.00	3.5	259	S 79 W	100	0.9	133	S 47 E	
6696.0	8.00	3.6	259	S 79 W	100	0.9	133	S 47 E	
6698.0	8.00	3.7	258	S 78 W	100	0.9	134	S 46 E	
6700.0	8.00	6.7	270	N 90 W	98	0.9	130	S 50 E	
6702.0	8.00	4.8	252	S 72 W	100	0.9	132	S 48 E	
6704.0	8.00	16.9	183	S 3 W	59	1.0	132	S 48 E	
6706.0	8.00	5.8	238	S 58 W	76	1.0	129	S 51 E	
6714.0	8.00	5.0	230	S 50 W	100	1.0	131	S 49 E	
6716.0	8.00	5.0	227	S 47 W	100	1.0	134	S 46 E	
6718.0	8.00	2.7	187	S 7 W	100	1.0	132	S 48 E	
6722.0	8.00	3.5	293	N 67 W	100	1.0	134	S 46 E	
6724.0	8.00	2.7	284	N 76 W	100	1.0	135	S 45 E	
6726.0	8.00	3.4	283	N 77 W	100	1.1	141	S 39 E	

RIO BRAVO
20-2 RU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

PAGE 8

UTAH

DEPTH	WL	**FORMATION DIP**				***BOREHOLE***			
		ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
6728.0	8.00	3.3	260	S 80 W	100	1.1	142	S 38 E	
6730.0	8.00	3.5	249	S 69 W	100	1.1	143	S 37 E	
6732.0	8.00	4.9	248	S 68 W	100	1.0	139	S 41 E	
6734.0	8.00	2.1	162	S 18 E	100	1.1	142	S 38 E	
6736.0	8.00	2.7	216	S 36 W	100	1.1	142	S 38 E	
6738.0	8.00	2.4	187	S 7 W	100	1.1	142	S 38 E	
6740.0	8.00	2.5	212	S 32 W	100	1.2	141	S 39 E	
6742.0	8.00	14.5	286	N 74 W	76	1.3	144	S 36 E	
6744.0	8.00	8.7	317	N 43 W	53	1.3	145	S 35 E	
6746.0	8.00	3.1	218	S 38 W	100	1.2	148	S 32 E	
6748.0	8.00	3.6	253	S 73 W	84	1.2	149	S 31 E	
6750.0	8.00	4.8	248	S 68 W	100	1.2	151	S 29 E	
6752.0	8.00	4.6	256	S 76 W	100	1.2	151	S 29 E	
6754.0	8.00	4.8	253	S 73 W	100	1.2	149	S 31 E	
6756.0	8.00	4.2	247	S 67 W	100	1.1	150	S 30 E	
6758.0	8.00	4.4	246	S 66 W	100	1.2	148	S 32 E	
6760.0	8.00	4.2	246	S 66 W	100	1.2	149	S 31 E	
6762.0	8.00	4.7	237	S 57 W	100	1.1	152	S 28 E	
6764.0	8.00	5.1	237	S 57 W	100	1.1	151	S 29 E	
6766.0	8.00	4.2	233	S 53 W	100	1.2	155	S 25 E	
6768.0	8.00	3.9	241	S 61 W	100	1.2	151	S 29 E	
6770.0	8.00	3.2	247	S 67 W	100	1.2	155	S 25 E	
6772.0	8.00	3.4	246	S 66 W	100	1.2	149	S 31 E	
6774.0	8.00	3.4	255	S 75 W	100	1.2	154	S 26 E	
6776.0	8.00	2.5	196	S 16 W	100	1.2	152	S 28 E	
6778.0	8.00	3.0	207	S 27 W	100	1.2	150	S 30 E	
6780.0	8.00	10.2	276	N 84 W	100	1.2	150	S 30 E	
6782.0	8.00	3.1	263	S 83 W	100	1.2	152	S 28 E	
6784.0	8.00	4.0	271	N 89 W	100	1.2	153	S 27 E	
6786.0	8.00	1.0	234	S 54 W	100	1.2	154	S 26 E	
6788.0	8.00	1.5	241	S 61 W	100	1.3	152	S 28 E	
6790.0	8.00	0.9	297	N 63 W	95	1.3	155	S 25 E	
6792.0	8.00	2.4	270	N 90 W	100	1.3	154	S 26 E	
6794.0	8.00	3.3	268	S 88 W	100	1.3	154	S 26 E	
6796.0	8.00	3.3	267	S 87 W	100	1.3	156	S 24 E	
6798.0	8.00	3.7	261	S 81 W	100	1.3	154	S 26 E	
6800.0	8.00	3.2	263	S 83 W	100	1.3	154	S 26 E	
6802.0	8.00	3.0	252	S 72 W	100	1.3	156	S 24 E	
6804.0	8.00	2.7	252	S 72 W	100	1.3	158	S 22 E	
6806.0	8.00	2.5	245	S 65 W	100	1.3	157	S 23 E	

RIO BRAVO

DIP348

20-2 RU

ROOSEVELT FIELD

UINTAH

UTAH

02-26-84

DEPTH	WL.	**FORMATION DIP**				GRADE	***BOREHOLE***		
		ANG	AZ	BEARING	DA		DAZ	BEARING	
6808.0	8.00	20.7	64	N 64 E	75	1.3	159	S 21 E	
6810.0	8.00	13.8	70	N 70 E	100	1.3	160	S 20 E	
6812.0	8.00	13.4	64	N 64 E	100	1.2	162	S 18 E	
6814.0	8.00	13.3	63	N 63 E	100	1.2	160	S 20 E	
6816.0	8.00	9.9	46	N 46 E	76	1.2	160	S 20 E	
6818.0	8.00	15.0	96	S 84 E	100	1.1	163	S 17 E	
6822.0	8.00	19.2	281	N 79 W	44	1.1	163	S 17 E	
6824.0	8.00	4.9	274	N 86 W	73	1.1	164	S 16 E	
6826.0	8.00	4.5	272	N 88 W	100	1.1	164	S 16 E	
6828.0	8.00	3.1	265	S 85 W	100	1.1	164	S 16 E	
6830.0	8.00	3.0	257	S 77 W	100	1.1	163	S 17 E	
6832.0	8.00	2.6	259	S 79 W	100	1.1	166	S 14 E	
6834.0	8.00	2.4	255	S 75 W	100	1.1	163	S 17 E	
6836.0	8.00	1.9	260	S 80 W	100	1.0	165	S 15 E	
6838.0	8.00	1.8	255	S 75 W	100	1.1	167	S 13 E	
6840.0	8.00	1.0	251	S 71 W	100	1.1	166	S 14 E	
6842.0	8.00	2.2	210	S 50 W	100	1.1	163	S 17 E	
6844.0	8.00	3.2	228	S 48 W	100	1.1	164	S 16 E	
6846.0	8.00	2.1	251	S 71 W	100	1.1	161	S 19 E	
6848.0	8.00	2.5	229	S 49 W	80	1.1	167	S 13 E	
6850.0	8.00	2.7	257	S 77 W	91	1.1	160	S 20 E	
6852.0	8.00	5.2	276	N 84 W	100	1.1	162	S 18 E	
6854.0	8.00	4.3	268	S 88 W	100	1.1	163	S 17 E	
6856.0	8.00	2.5	207	S 27 W	100	1.1	163	S 17 E	
6858.0	8.00	2.3	286	N 74 W	100	1.1	161	S 19 E	
6860.0	8.00	1.5	208	S 28 W	100	1.1	162	S 18 E	
6862.0	8.00	2.1	257	S 77 W	100	1.1	162	S 18 E	
6864.0	8.00	3.0	267	S 87 W	100	1.1	161	S 19 E	
6866.0	8.00	2.7	262	S 82 W	100	1.1	164	S 16 E	
6868.0	8.00	2.9	267	S 87 W	100	1.1	165	S 15 E	
6870.0	8.00	1.8	221	S 41 W	100	1.2	165	S 15 E	
6872.0	8.00	1.6	229	S 49 W	100	1.2	164	S 16 E	
6874.0	8.00	1.5	206	S 26 W	100	1.2	165	S 15 E	
6876.0	8.00	1.9	225	S 45 W	95	1.2	162	S 18 E	
6878.0	8.00	2.8	211	S 31 W	100	1.2	165	S 15 E	
6880.0	8.00	4.5	215	S 35 W	100	1.2	162	S 18 E	
6882.0	8.00	4.9	241	S 61 W	92	1.2	164	S 16 E	
6884.0	8.00	4.8	239	S 59 W	82	1.3	164	S 16 E	
6888.0	8.00	1.8	280	N 80 W	100	1.3	165	S 15 E	
6900.0	8.00	1.4	111	S 69 E	100	1.4	169	S 11 E	

RIO BRAVO
20-2 RU

DIP348

ROOSEVELT FIELD

UINTAH

UTAH

02-26-84

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE****			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
6902.0	8.00	1.1	95	S 85 E	95	1.5	170	S 10 E		
6904.0	8.00	0.8	270	N 90 W	100	1.5	172	S 8 E		
6906.0	8.00	0.9	323	N 37 W	100	1.6	173	S 7 E		
6910.0	8.00	0.3	311	N 49 W	100	1.6	176	S 4 E		
6912.0	8.00	3.3	69	N 69 E	100	1.8	174	S 6 E		
6916.0	8.00	2.9	46	N 46 E	57	1.7	175	S 5 E		
6918.0	8.00	3.8	316	N 44 W	78	1.7	176	S 4 E		
6920.0	8.00	3.8	304	N 56 W	100	1.7	175	S 5 E		
6922.0	8.00	3.6	291	N 69 W	85	1.6	179	S 1 E		
6924.0	8.00	3.8	275	N 85 W	54	1.6	180	S 0 E		
6926.0	8.00	2.2	287	N 73 W	39	1.6	180	S 0 E		
6928.0	8.00	2.9	261	S 81 W	100	1.5	176	S 4 E		
6930.0	8.00	2.1	253	S 73 W	100	1.5	177	S 3 E		
6932.0	8.00	2.4	253	S 73 W	100	1.6	176	S 4 E		
6934.0	8.00	3.9	309	N 51 W	100	1.6	174	S 6 E		
6938.0	8.00	3.1	283	N 77 W	100	1.6	182	S 2 W		
6940.0	8.00	3.1	278	N 82 W	100	1.5	187	S 7 W		
6942.0	8.00	3.0	285	N 75 W	100	1.6	187	S 7 W		
6944.0	8.00	3.1	291	N 69 W	100	1.6	186	S 6 W		
6946.0	8.00	3.5	281	N 79 W	100	1.8	187	S 7 W		
6948.0	8.00	2.6	271	N 89 W	100	1.8	189	S 9 W		
6950.0	8.00	2.1	298	N 62 W	100	1.8	192	S 12 W		
6952.0	8.00	2.7	300	N 60 W	100	1.9	193	S 13 W		
6954.0	8.00	1.6	307	N 53 W	100	1.9	194	S 14 W		
6956.0	8.00	2.1	293	N 67 W	100	1.9	193	S 13 W		
6958.0	8.00	1.4	294	N 66 W	100	2.1	195	S 15 W		
6960.0	8.00	1.4	298	N 62 W	100	2.1	195	S 15 W		
6962.0	8.00	1.3	286	N 74 W	100	2.1	195	S 15 W		
6964.0	8.00	1.3	266	S 86 W	100	2.0	195	S 15 W		
6966.0	8.00	1.3	298	N 62 W	100	2.0	196	S 16 W		
6976.0	8.00	1.7	296	N 64 W	100	1.9	197	S 17 W		
6978.0	8.00	2.2	255	S 75 W	100	1.8	195	S 15 W		
6980.0	8.00	0.9	254	S 74 W	100	1.8	194	S 14 W		
6982.0	8.00	0.8	322	N 38 W	100	1.7	192	S 12 W		
6984.0	8.00	0.9	269	S 89 W	100	1.7	193	S 13 W		
6986.0	8.00	0.9	276	N 84 W	100	1.7	195	S 15 W		
6988.0	8.00	0.7	299	N 61 W	100	1.6	194	S 14 W		
6990.0	8.00	0.8	294	N 66 W	100	1.6	194	S 14 W		
6992.0	8.00	1.1	284	N 76 W	100	1.6	193	S 13 W		
6994.0	8.00	1.0	284	N 76 W	100	1.6	192	S 12 W		

RIO BRAVO
 20-2 RU
 ROOSEVELT FIELD
 UINTAH
 02-26-84

DIP348

UTAH

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE***		
		ANG	AZ	BEARING	DA		DAZ	BEARING	
6996.0	8.00	1.2	281	N 79 W	100	1.5	190	S 10 W	
6998.0	8.00	1.0	291	N 69 W	100	1.5	190	S 10 W	
7000.0	8.00	1.0	288	N 72 W	100	1.5	189	S 9 W	
7002.0	8.00	1.0	276	N 84 W	100	1.5	188	S 8 W	
7004.0	8.00	1.0	264	S 84 W	100	1.5	190	S 10 W	
7006.0	8.00	1.3	277	N 83 W	100	1.5	189	S 9 W	
7008.0	8.00	1.5	270	N 90 W	100	1.5	188	S 8 W	
7010.0	8.00	1.9	267	S 87 W	100	1.5	189	S 9 W	
7012.0	8.00	1.5	260	S 80 W	100	1.5	187	S 7 W	
7014.0	8.00	1.7	265	S 85 W	100	1.4	187	S 7 W	
7016.0	8.00	1.5	273	N 87 W	100	1.5	185	S 5 W	
7018.0	8.00	0.9	316	N 44 W	100	1.5	185	S 5 W	
7020.0	8.00	1.9	320	N 40 W	100	1.5	186	S 6 W	
7022.0	8.00	2.4	341	N 19 W	100	1.4	188	S 8 W	
7024.0	8.00	4.2	349	N 11 W	100	1.4	185	S 5 W	
7026.0	8.00	4.7	352	N 8 W	100	1.4	187	S 7 W	
7028.0	8.00	3.9	345	N 15 W	100	1.5	188	S 8 W	
7030.0	8.00	2.1	332	N 28 W	100	1.4	185	S 5 W	
7032.0	8.00	1.4	206	S 26 W	100	1.4	187	S 7 W	
7034.0	8.00	1.6	214	S 34 W	100	1.4	182	S 2 W	
7036.0	8.00	2.6	232	S 52 W	100	1.4	185	S 5 W	
7038.0	8.00	2.3	235	S 55 W	100	1.4	184	S 4 W	
7040.0	8.00	2.3	248	S 68 W	100	1.4	183	S 3 W	
7042.0	8.00	2.3	240	S 60 W	100	1.4	181	S 1 W	
7044.0	8.00	2.5	234	S 54 W	100	1.3	183	S 3 W	
7046.0	8.00	2.9	261	S 81 W	100	1.3	177	S 3 E	
7048.0	8.00	2.3	244	S 64 W	100	1.3	177	S 3 E	
7050.0	8.00	14.9	153	S 27 E	100	1.3	178	S 2 E	
7052.0	8.00	7.3	107	S 73 E	72	1.3	178	S 2 E	
7054.0	8.00	7.1	188	S 8 W	75	1.2	179	S 1 E	
7056.0	8.00	2.8	337	N 23 W	100	1.2	179	S 1 E	
7058.0	8.00	2.2	357	N 3 W	100	1.2	177	S 3 E	
7074.0	8.00	1.0	310	N 50 W	68	1.1	167	S 13 E	
7076.0	8.00	1.2	266	S 86 W	100	1.1	165	S 15 E	
7078.0	8.00	1.5	242	S 62 W	100	1.1	161	S 19 E	
7080.0	8.00	1.1	264	S 84 W	100	1.1	163	S 17 E	
7082.0	8.00	0.5	262	S 82 W	100	1.1	160	S 20 E	
7084.0	8.00	0.3	268	S 88 W	100	1.0	160	S 20 E	
7086.0	8.00	1.2	273	N 87 W	100	1.0	157	S 23 E	
7088.0	8.00	1.3	290	N 70 W	100	1.1	154	S 26 E	

RIO BRAVO
20-2 RU

DIP348

ROOSEVELT FIELD

UINTAH

UTAH

02-26-84

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE***		
		ANG	AZ	BEARING	DA		DAZ	BEARING	
7090.0	8.00	1.9	273	N 87 W	100	1.1	155	S 25 E	
7092.0	8.00	2.5	283	N 77 W	100	1.1	156	S 24 E	
7094.0	8.00	3.3	278	N 82 W	100	1.1	156	S 24 E	
7096.0	8.00	3.0	287	N 73 W	100	1.1	156	S 24 E	
7098.0	8.00	3.0	282	N 78 W	100	1.1	156	S 24 E	
7100.0	8.00	3.0	282	N 78 W	100	1.1	156	S 24 E	
7102.0	8.00	2.5	275	N 85 W	100	1.1	156	S 24 E	
7104.0	8.00	2.5	274	N 86 W	100	1.1	156	S 24 E	
7106.0	8.00	1.7	273	N 87 W	100	1.0	158	S 22 E	
7110.0	8.00	0.7	279	N 81 W	100	1.0	156	S 24 E	
7114.0	8.00	1.8	299	N 61 W	100	1.0	153	S 27 E	
7116.0	8.00	1.7	316	N 44 W	100	1.0	156	S 24 E	
7118.0	8.00	1.4	309	N 51 W	100	1.0	154	S 26 E	
7120.0	8.00	1.4	308	N 52 W	100	1.0	152	S 28 E	
7124.0	8.00	1.6	309	N 51 W	100	1.1	156	S 24 E	
7126.0	8.00	1.7	304	N 56 W	100	1.1	153	S 27 E	
7128.0	8.00	1.4	317	N 43 W	100	1.0	156	S 24 E	
7130.0	8.00	1.3	315	N 45 W	100	1.1	158	S 22 E	
7132.0	8.00	1.3	306	N 54 W	100	1.1	159	S 21 E	
7134.0	8.00	1.3	307	N 53 W	100	1.1	155	S 25 E	
7142.0	8.00	13.7	212	S 32 W	100	1.1	158	S 22 E	
7144.0	8.00	2.0	25	N 25 E	100	1.1	162	S 18 E	
7146.0	8.00	2.9	26	N 26 E	100	1.1	160	S 20 E	
7148.0	8.00	2.5	9	N 9 E	100	1.1	159	S 21 E	
7152.0	8.00	1.2	60	N 60 E	100	1.1	163	S 17 E	
7154.0	8.00	0.9	50	N 50 E	100	1.1	158	S 22 E	
7156.0	8.00	0.9	76	N 76 E	100	1.1	155	S 25 E	
7158.0	8.00	1.9	7	N 7 E	100	1.1	155	S 25 E	
7160.0	8.00	2.1	351	N 9 W	100	1.1	155	S 25 E	
7162.0	8.00	1.9	359	N 1 W	100	1.1	155	S 25 E	
7164.0	8.00	2.5	297	N 63 W	100	1.1	157	S 23 E	
7166.0	8.00	3.7	252	S 72 W	100	1.2	154	S 26 E	
7168.0	8.00	2.5	260	S 80 W	100	1.2	155	S 25 E	
7170.0	8.00	3.8	232	S 52 W	100	1.2	155	S 25 E	
7172.0	8.00	2.4	212	S 32 W	100	1.2	156	S 24 E	
7174.0	8.00	2.6	216	S 36 W	100	1.2	154	S 26 E	
7176.0	8.00	2.6	358	N 2 W	100	1.2	155	S 25 E	
7178.0	8.00	2.4	4	N 4 E	100	1.2	156	S 24 E	
7180.0	8.00	3.4	325	N 35 W	100	1.2	157	S 23 E	
7182.0	8.00	3.0	306	N 54 W	100	1.2	156	S 24 E	

RIO BRAVO
20-2 RU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

UTAH

DEPTH	WL	**FORMATION DIP**			GRADE	***BOREHOLE***		
		ANG	AZ	BEARING		DA	DAZ	BEARING
7184.0	8.00	0.6	157	S 23 E	100	1.2	155	S 25 E
7186.0	8.00	1.0	304	N 56 W	100	1.2	156	S 24 E
7188.0	8.00	1.8	288	N 72 W	100	1.3	151	S 29 E
7190.0	8.00	1.5	282	N 78 W	100	1.3	152	S 28 E
7192.0	8.00	2.7	307	N 53 W	100	1.3	147	S 33 E
7194.0	8.00	2.7	314	N 46 W	100	1.3	149	S 31 E
7196.0	8.00	3.6	357	N 3 W	100	1.3	147	S 33 E
7198.0	8.00	3.6	347	N 13 W	100	1.3	148	S 32 E
7200.0	8.00	2.3	338	N 22 W	100	1.2	146	S 34 E
7210.0	8.00	0.8	284	N 76 W	100	1.2	145	S 35 E
7212.0	8.00	0.8	269	S 89 W	100	1.2	146	S 34 E
7214.0	8.00	0.3	296	N 64 W	100	1.2	147	S 33 E
7216.0	8.00	1.4	280	N 80 W	100	1.2	144	S 36 E
7218.0	8.00	1.5	265	S 85 W	100	1.2	144	S 36 E
7220.0	8.00	1.4	264	S 84 W	100	1.2	143	S 37 E
7222.0	8.00	1.3	271	N 89 W	100	1.2	142	S 38 E
7232.0	8.00	2.2	315	N 45 W	100	1.2	145	S 35 E
7238.0	8.00	2.2	2	N 2 E	100	1.2	146	S 34 E
7240.0	8.00	7.4	106	S 74 E	100	1.2	144	S 36 E
7242.0	8.00	7.7	103	S 77 E	100	1.2	146	S 34 E
7244.0	8.00	2.8	356	N 4 W	100	1.3	148	S 32 E
7246.0	8.00	2.7	349	N 11 W	100	1.3	145	S 35 E
7248.0	8.00	2.2	356	N 4 W	100	1.3	146	S 34 E
7250.0	8.00	3.8	5	N 5 E	100	1.2	148	S 32 E
7252.0	8.00	4.2	10	N 10 E	100	1.2	149	S 31 E
7254.0	8.00	4.7	8	N 8 E	100	1.3	149	S 31 E
7256.0	8.00	18.3	359	N 1 W	100	1.3	151	S 29 E
7258.0	8.00	18.3	355	N 5 W	90	1.3	154	S 26 E
7260.0	8.00	7.9	199	S 19 W	100	1.4	156	S 24 E
7262.0	8.00	4.6	217	S 37 W	100	1.4	154	S 26 E
7264.0	8.00	4.0	222	S 42 W	100	1.4	156	S 24 E
7266.0	8.00	3.1	221	S 41 W	100	1.4	155	S 25 E
7268.0	8.00	1.7	222	S 42 W	100	1.4	156	S 24 E
7270.0	8.00	1.7	266	S 86 W	100	1.4	157	S 23 E
7272.0	8.00	1.9	287	N 73 W	100	1.4	155	S 25 E
7274.0	8.00	1.0	274	N 86 W	100	1.3	157	S 23 E
7276.0	8.00	0.8	282	N 78 W	100	1.4	158	S 22 E
7278.0	8.00	0.6	288	N 72 W	100	1.3	159	S 21 E
7284.0	8.00	1.7	300	N 60 W	100	1.3	160	S 20 E
7290.0	8.00	2.3	335	N 25 W	100	1.3	161	S 19 E

RIO BRAVO
20-2 RU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

UTAH

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE***		
		ANG	AZ	BEARING	DA		DAZ	BEARING	
7292.0	8.00	2.4	330	N 30 W	100	1.3	161	S 19 E	
7294.0	8.00	2.4	325	N 35 W	100	1.3	161	S 19 E	
7296.0	8.00	2.4	321	N 39 W	100	1.4	163	S 17 E	
7298.0	8.00	2.1	326	N 34 W	100	1.4	161	S 19 E	
7302.0	8.00	2.3	314	N 46 W	100	1.4	162	S 18 E	
7304.0	8.00	2.4	311	N 49 W	100	1.4	160	S 20 E	
7306.0	8.00	2.4	314	N 46 W	100	1.4	159	S 21 E	
7308.0	8.00	2.8	315	N 45 W	100	1.4	162	S 18 E	
7310.0	8.00	2.6	306	N 54 W	100	1.4	161	S 19 E	
7312.0	8.00	2.1	320	N 40 W	100	1.4	160	S 20 E	
7314.0	8.00	2.2	313	N 47 W	100	1.4	159	S 21 E	
7318.0	8.00	1.1	283	N 77 W	100	1.4	158	S 22 E	
7320.0	8.00	1.2	230	S 50 W	100	1.4	157	S 23 E	
7322.0	8.00	1.3	238	S 58 W	100	1.3	157	S 23 E	
7326.0	8.00	3.7	316	N 44 W	100	1.3	160	S 20 E	
7332.0	8.00	3.0	305	N 55 W	100	1.4	160	S 20 E	
7334.0	8.00	2.4	348	N 12 W	100	1.4	158	S 22 E	
7350.0	8.00	5.4	318	N 42 W	100	1.5	157	S 23 E	
7352.0	8.00	4.0	306	N 54 W	100	1.4	157	S 23 E	
7354.0	8.00	2.3	315	N 45 W	100	1.4	158	S 22 E	
7356.0	8.00	2.3	309	N 51 W	100	1.4	156	S 24 E	
7360.0	8.00	0.0	0	N 0 E	99	1.6	155	S 25 E	
7364.0	8.00	2.0	318	N 42 W	100	1.4	158	S 22 E	
7380.0	8.00	2.6	336	N 24 W	100	1.5	156	S 24 E	
7382.0	8.00	2.5	350	N 10 W	100	1.5	156	S 24 E	
7388.0	8.00	2.3	355	N 5 W	100	1.5	154	S 26 E	
7396.0	8.00	2.8	323	N 37 W	100	1.5	152	S 28 E	
7398.0	8.00	3.4	297	N 63 W	100	1.5	151	S 29 E	
7400.0	8.00	2.6	299	N 61 W	100	1.5	156	S 24 E	
7402.0	8.00	1.8	304	N 56 W	100	1.6	154	S 26 E	
7404.0	8.00	2.2	322	N 38 W	100	1.5	155	S 25 E	
7426.0	8.00	1.7	2	N 2 E	100	1.5	155	S 25 E	
7450.0	8.00	2.2	338	N 22 W	100	1.5	154	S 26 E	
7452.0	8.00	2.2	348	N 12 W	100	1.5	154	S 26 E	
7454.0	8.00	2.5	355	N 5 W	100	1.4	159	S 21 E	
7456.0	8.00	2.2	3	N 3 E	100	1.4	159	S 21 E	
7458.0	8.00	2.0	4	N 4 E	100	1.4	157	S 23 E	
7464.0	8.00	3.0	309	N 51 W	100	1.4	160	S 20 E	
7466.0	8.00	2.7	315	N 45 W	100	1.4	158	S 22 E	
7468.0	8.00	2.9	325	N 35 W	100	1.5	159	S 21 E	

RIO BRAVO

DIP348

20-2 PU

ROOSEVELT FIELD

UINTAH

UTAH

02-26-84

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE***		
		ANG	AZ	BEARING	DA		DAZ	BEARING	
7470.0	8.00	2.3	339	N 21 W	100	1.5	157	S 23 E	
7480.0	8.00	2.5	324	N 36 W	100	1.5	157	S 23 E	
7486.0	8.00	1.7	21	N 21 E	100	1.5	156	S 24 E	
7488.0	8.00	2.2	20	N 20 E	100	1.5	158	S 22 E	
7490.0	8.00	2.1	20	N 20 E	100	1.4	157	S 23 E	
7492.0	8.00	2.1	4	N 4 E	100	1.5	155	S 25 E	
7496.0	8.00	1.7	8	N 8 E	100	1.5	154	S 26 E	
7500.0	8.00	1.6	2	N 2 E	100	1.5	157	S 23 E	
7504.0	8.00	1.8	0	N 0 E	100	1.5	157	S 23 E	
7516.0	8.00	2.6	312	N 48 W	100	1.5	155	S 25 E	
7518.0	8.00	2.6	327	N 33 W	100	1.5	154	S 26 E	
7522.0	8.00	2.6	333	N 27 W	100	1.5	154	S 26 E	
7524.0	8.00	2.5	330	N 30 W	100	1.5	155	S 25 E	
7528.0	8.00	2.4	310	N 50 W	100	1.5	154	S 26 E	
7530.0	8.00	2.4	301	N 59 W	100	1.5	155	S 25 E	
7532.0	8.00	2.3	309	N 51 W	100	1.5	152	S 28 E	
7536.0	8.00	1.9	305	N 55 W	100	1.4	154	S 26 E	
7538.0	8.00	2.2	301	N 59 W	100	1.5	151	S 29 E	
7540.0	8.00	2.0	298	N 62 W	100	1.4	151	S 29 E	
7542.0	8.00	2.6	307	N 53 W	100	1.5	153	S 27 E	
7544.0	8.00	2.3	307	N 53 W	100	1.5	155	S 25 E	
7546.0	8.00	2.2	299	N 61 W	100	1.5	153	S 27 E	
7548.0	8.00	2.3	298	N 62 W	100	1.5	153	S 27 E	
7550.0	8.00	2.2	301	N 59 W	100	1.5	156	S 24 E	
7552.0	8.00	2.2	305	N 55 W	100	1.4	155	S 25 E	
7554.0	8.00	2.3	312	N 48 W	100	1.5	157	S 23 E	
7556.0	8.00	1.5	299	N 61 W	100	1.4	158	S 22 E	
7558.0	8.00	2.2	309	N 51 W	100	1.4	160	S 20 E	
7560.0	8.00	2.0	294	N 66 W	100	1.5	162	S 18 E	
7562.0	8.00	2.2	286	N 74 W	100	1.4	160	S 20 E	
7564.0	8.00	2.3	285	N 75 W	100	1.4	163	S 17 E	
7566.0	8.00	2.1	281	N 79 W	100	1.3	167	S 13 E	
7568.0	8.00	1.8	302	N 58 W	100	1.3	164	S 16 E	
7570.0	8.00	0.7	259	S 79 W	100	1.4	167	S 13 E	
7572.0	8.00	1.3	288	N 72 W	100	1.4	167	S 13 E	
7574.0	8.00	4.0	208	S 28 W	100	1.4	168	S 12 E	
7576.0	8.00	2.9	313	N 47 W	54	1.4	170	S 10 E	
7578.0	8.00	2.4	302	N 58 W	100	1.4	173	S 7 E	
7580.0	8.00	2.1	315	N 45 W	100	1.4	178	S 2 E	
7582.0	8.00	2.2	319	N 41 W	100	1.4	178	S 2 E	

RIO BRAVO
20-2 RU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

UTAH

DEPTH	WI.	**FORMATION DIP**				GRADE	***BOREHOLE***			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
7584.0	8.00	2.2	319	N 41 W	100	1.4	180	S 0 E		
7586.0	8.00	2.3	323	N 37 W	100	1.4	182	S 2 W		
7588.0	8.00	3.0	318	N 42 W	100	1.4	181	S 1 W		
7590.0	8.00	3.5	314	N 46 W	100	1.4	180	S 0 E		
7606.0	8.00	2.7	327	N 33 W	100	1.6	188	S 8 W		
7608.0	8.00	2.2	340	N 20 W	100	1.7	190	S 10 W		
7610.0	8.00	1.7	346	N 14 W	100	1.7	191	S 11 W		
7614.0	8.00	1.6	335	N 25 W	100	1.8	191	S 11 W		
7616.0	8.00	1.5	329	N 31 W	100	1.7	193	S 13 W		
7618.0	8.00	2.7	304	N 56 W	100	1.8	195	S 15 W		
7620.0	8.00	3.0	318	N 42 W	100	1.9	195	S 15 W		
7622.0	8.00	3.5	295	N 65 W	100	1.9	194	S 14 W		
7624.0	8.00	2.8	323	N 37 W	100	1.9	197	S 17 W		
7625.0	8.00	3.2	325	N 35 W	100	2.0	197	S 17 W		
7628.0	8.00	3.0	325	N 35 W	100	2.0	196	S 16 W		
7630.0	8.00	3.3	322	N 38 W	100	1.9	198	S 18 W		
7632.0	8.00	2.9	308	N 52 W	100	2.0	198	S 18 W		
7634.0	8.00	2.6	302	N 58 W	100	2.0	201	S 21 W		
7636.0	8.00	2.5	294	N 66 W	70	2.0	201	S 21 W		
7638.0	8.00	2.6	299	N 61 W	100	2.1	203	S 23 W		
7640.0	8.00	2.6	269	S 89 W	100	2.1	203	S 23 W		
7642.0	8.00	2.0	277	N 83 W	100	2.1	203	S 23 W		
7644.0	8.00	2.2	300	N 60 W	100	2.2	204	S 24 W		
7646.0	8.00	2.2	276	N 84 W	100	2.2	205	S 25 W		
7648.0	8.00	2.6	297	N 63 W	100	2.2	205	S 25 W		
7650.0	8.00	2.7	310	N 50 W	100	2.3	203	S 23 W		
7652.0	8.00	2.6	324	N 36 W	100	2.3	205	S 25 W		
7654.0	8.00	3.0	304	N 56 W	100	2.4	205	S 25 W		
7656.0	8.00	1.2	332	N 28 W	100	2.4	207	S 27 W		
7658.0	8.00	3.0	327	N 33 W	100	2.5	205	S 25 W		
7660.0	8.00	1.6	316	N 44 W	100	2.5	205	S 25 W		
7662.0	8.00	2.3	340	N 20 W	100	2.5	207	S 27 W		
7664.0	8.00	2.8	311	N 49 W	100	2.7	206	S 26 W		
7666.0	8.00	4.0	311	N 49 W	100	2.7	208	S 28 W		
7668.0	8.00	3.9	335	N 25 W	100	2.8	207	S 27 W		
7670.0	8.00	3.1	316	N 44 W	100	2.8	208	S 28 W		
7672.0	8.00	1.6	273	N 87 W	100	2.8	208	S 28 W		
7674.0	8.00	1.6	170	S 10 E	100	2.9	208	S 28 W		
7676.0	8.00	1.1	279	N 81 W	100	3.0	209	S 29 W		
7678.0	8.00	0.8	197	S 17 W	100	3.0	209	S 29 W		

RIO BRAVO
20-2 RU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

UTAH

DEPTH	WL.	**FORMATION DIP**				GRADE	***BOREHOLE***		
		ANG	AZ	BEARING	DA		DAZ	BEARING	
7680.0	8.00	1.0	285	N 75 W	100	3.0	208	S 28 W	
7682.0	8.00	1.5	312	N 48 W	100	3.1	210	S 30 W	
7684.0	8.00	2.1	330	N 30 W	100	3.1	209	S 29 W	
7686.0	8.00	2.1	341	N 19 W	100	3.2	210	S 30 W	
7688.0	8.00	2.7	322	N 38 W	100	3.3	211	S 31 W	
7690.0	8.00	3.4	314	N 46 W	100	3.2	211	S 31 W	
7692.0	8.00	2.8	316	N 44 W	100	3.3	212	S 32 W	
7694.0	8.00	2.3	319	N 41 W	100	3.4	211	S 31 W	
7696.0	8.00	2.6	326	N 34 W	100	3.4	211	S 31 W	
7698.0	8.00	2.5	337	N 23 W	100	3.4	213	S 33 W	
7700.0	8.00	2.7	341	N 19 W	100	3.6	212	S 32 W	
7702.0	8.00	2.8	340	N 20 W	100	3.5	214	S 34 W	
7704.0	8.00	3.1	330	N 30 W	100	3.6	214	S 34 W	
7706.0	8.00	2.3	316	N 44 W	100	3.6	214	S 34 W	
7708.0	8.00	1.8	316	N 44 W	100	3.7	215	S 35 W	
7710.0	8.00	1.9	316	N 44 W	100	3.7	216	S 36 W	
7712.0	8.00	1.7	320	N 40 W	100	3.8	215	S 35 W	
7714.0	8.00	1.5	305	N 55 W	100	3.9	215	S 35 W	
7716.0	8.00	1.7	312	N 48 W	100	3.9	217	S 37 W	
7718.0	8.00	2.6	314	N 46 W	100	4.0	217	S 37 W	
7720.0	8.00	3.4	312	N 48 W	100	4.0	215	S 35 W	
7722.0	8.00	3.2	327	N 33 W	100	4.1	215	S 35 W	
7724.0	8.00	2.9	330	N 30 W	100	4.1	216	S 36 W	
7726.0	8.00	2.9	347	N 13 W	100	4.2	215	S 35 W	
7728.0	8.00	3.1	2	N 2 E	100	4.2	215	S 35 W	
7730.0	8.00	3.1	2	N 2 E	100	4.3	215	S 35 W	
7732.0	8.00	2.4	335	N 25 W	100	4.3	215	S 35 W	
7734.0	8.00	1.9	326	N 34 W	100	4.4	215	S 35 W	
7736.0	8.00	1.7	328	N 32 W	67	4.4	215	S 35 W	
7744.0	8.00	2.7	321	N 39 W	87	4.7	215	S 35 W	
7746.0	8.00	1.6	276	N 84 W	100	4.7	216	S 36 W	
7748.0	8.00	3.7	293	N 67 W	100	4.7	216	S 36 W	
7750.0	8.00	3.6	292	N 68 W	100	4.7	215	S 35 W	
7752.0	8.00	4.4	296	N 64 W	100	4.9	216	S 36 W	
7754.0	8.00	2.7	318	N 42 W	100	4.9	217	S 37 W	
7756.0	8.00	3.4	338	N 22 W	100	5.0	217	S 37 W	
7758.0	8.00	3.4	328	N 32 W	100	5.0	217	S 37 W	
7760.0	8.00	2.9	325	N 35 W	100	5.0	217	S 37 W	
7762.0	8.00	3.2	339	N 21 W	100	5.1	218	S 38 W	
7764.0	8.00	2.8	332	N 28 W	100	5.2	218	S 38 W	

RIO BRAVO
20-2 RU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

UTAH

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE***			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
7766.0	8.00	4.0	340	N 20 W	100	5.2	218	S 38 W		
7768.0	8.00	3.2	332	N 28 W	100	5.3	218	S 38 W		
7770.0	8.00	2.8	330	N 30 W	100	5.3	219	S 39 W		
7772.0	8.00	2.5	320	N 40 W	100	5.4	218	S 38 W		
7774.0	8.00	2.0	321	N 39 W	100	5.5	219	S 39 W		
7776.0	8.00	5.7	279	N 81 W	100	5.4	218	S 38 W		
7778.0	8.00	2.2	318	N 42 W	100	5.6	219	S 39 W		
7780.0	8.00	2.4	300	N 60 W	100	5.6	218	S 38 W		
7782.0	8.00	2.9	296	N 64 W	100	5.6	218	S 38 W		
7784.0	8.00	2.4	280	N 80 W	100	5.7	218	S 38 W		
7786.0	8.00	2.3	282	N 78 W	100	5.7	218	S 38 W		
7788.0	8.00	3.1	265	S 85 W	100	5.7	218	S 38 W		
7790.0	8.00	1.6	307	N 53 W	100	5.8	218	S 38 W		
7792.0	8.00	2.4	348	N 12 W	100	5.8	218	S 38 W		
7794.0	8.00	4.3	349	N 11 W	100	5.9	218	S 38 W		
7796.0	8.00	2.1	1	N 1 E	100	5.9	219	S 39 W		
7798.0	8.00	2.2	4	N 4 E	100	6.0	218	S 38 W		
7800.0	8.00	2.1	3	N 3 E	100	6.0	218	S 38 W		
7802.0	8.00	1.5	322	N 38 W	100	6.1	218	S 38 W		
7804.0	8.00	2.5	324	N 36 W	100	6.1	218	S 38 W		
7806.0	8.00	2.5	313	N 47 W	100	6.2	218	S 38 W		
7808.0	8.00	2.3	320	N 40 W	100	6.3	218	S 38 W		
7810.0	8.00	2.5	318	N 42 W	100	6.3	219	S 39 W		
7812.0	8.00	2.0	321	N 39 W	100	6.3	219	S 39 W		
7814.0	8.00	1.7	309	N 51 W	100	6.4	219	S 39 W		
7816.0	3.00	1.7	336	N 24 W	100	6.4	219	S 39 W		
7818.0	8.00	2.2	338	N 22 W	100	6.4	219	S 39 W		
7820.0	8.00	3.0	321	N 39 W	100	6.5	219	S 39 W		
7822.0	8.00	2.1	329	N 31 W	100	6.5	218	S 38 W		
7824.0	8.00	2.1	322	N 38 W	100	6.5	219	S 39 W		
7826.0	8.00	1.8	320	N 40 W	100	6.5	218	S 38 W		
7828.0	8.00	2.3	306	N 54 W	100	6.6	218	S 38 W		
7830.0	8.00	2.1	315	N 45 W	100	6.6	218	S 38 W		
7832.0	8.00	2.0	303	N 57 W	100	6.6	219	S 39 W		
7834.0	8.00	1.8	311	N 49 W	100	6.7	218	S 38 W		
7836.0	8.00	2.6	287	N 73 W	100	6.7	218	S 38 W		
7838.0	8.00	2.1	294	N 66 W	100	6.7	218	S 38 W		
7840.0	8.00	2.1	299	N 61 W	100	6.8	218	S 38 W		
7842.0	8.00	2.4	319	N 41 W	100	6.8	218	S 38 W		
7844.0	8.00	2.3	324	N 36 W	100	6.9	218	S 38 W		

RIO BRAVO
20-2 RU

DIP348

PAGE 19

ROOSEVELT FIELD
UINTAH
02-26-84

UTAH

DEPTH	WL	**FORMATION DIP**				***BOREHOLE***			
		ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
7846.0	8.00	2.4	330	N 30 W	100	6.9	218	S 38 W	
7848.0	8.00	2.3	325	N 35 W	100	6.9	218	S 38 W	
7850.0	8.00	2.1	329	N 31 W	100	7.0	218	S 38 W	
7852.0	8.00	2.0	328	N 32 W	100	7.0	218	S 38 W	
7854.0	8.00	1.8	330	N 30 W	100	7.1	218	S 38 W	
7856.0	8.00	2.1	333	N 27 W	100	7.1	218	S 38 W	
7858.0	8.00	1.6	317	N 43 W	100	7.1	218	S 38 W	
7860.0	8.00	2.8	313	N 47 W	100	7.1	218	S 38 W	
7862.0	8.00	2.9	315	N 45 W	100	7.1	218	S 38 W	
7864.0	8.00	2.2	332	N 28 W	100	7.1	218	S 38 W	
7866.0	8.00	2.2	337	N 23 W	100	7.2	218	S 38 W	
7868.0	8.00	1.8	341	N 19 W	100	7.2	217	S 37 W	
7870.0	8.00	1.5	329	N 31 W	100	7.2	218	S 38 W	
7872.0	8.00	1.5	316	N 44 W	100	7.2	218	S 38 W	
7874.0	8.00	1.5	309	N 51 W	100	7.3	218	S 38 W	
7876.0	8.00	1.7	301	N 59 W	100	7.2	218	S 38 W	
7878.0	8.00	1.9	293	N 67 W	100	7.2	218	S 38 W	
7880.0	8.00	1.8	311	N 49 W	100	7.3	218	S 38 W	
7882.0	8.00	1.9	306	N 54 W	100	7.3	218	S 38 W	
7884.0	8.00	1.9	289	N 71 W	100	7.2	218	S 38 W	
7886.0	8.00	1.4	309	N 51 W	100	7.3	218	S 38 W	
7888.0	8.00	1.6	310	N 50 W	100	7.3	218	S 38 W	
7890.0	8.00	1.8	342	N 18 W	100	7.4	218	S 38 W	
7892.0	8.00	1.7	333	N 27 W	100	7.3	218	S 38 W	
7894.0	8.00	1.5	335	N 25 W	100	7.3	218	S 38 W	
7896.0	8.00	1.5	315	N 45 W	100	7.3	218	S 38 W	
7898.0	8.00	0.8	348	N 12 W	100	7.4	218	S 38 W	
7900.0	8.00	1.5	254	S 74 W	100	7.4	218	S 38 W	
7902.0	8.00	1.8	264	S 84 W	100	7.3	217	S 37 W	
7904.0	8.00	1.9	273	N 87 W	100	7.5	217	S 37 W	
7906.0	8.00	1.6	268	S 88 W	100	7.5	218	S 38 W	
7908.0	8.00	0.6	247	S 67 W	100	7.4	217	S 37 W	
7910.0	8.00	0.6	318	N 42 W	100	7.5	218	S 38 W	
7912.0	8.00	0.7	306	N 54 W	100	7.5	217	S 37 W	
7914.0	8.00	1.6	347	N 13 W	100	7.5	218	S 38 W	
7916.0	8.00	1.8	322	N 38 W	100	7.5	218	S 38 W	
7918.0	8.00	2.5	279	N 81 W	100	7.6	218	S 38 W	
7920.0	8.00	2.2	252	S 72 W	100	7.6	218	S 38 W	
7922.0	8.00	1.8	221	S 41 W	100	7.6	218	S 38 W	
7924.0	8.00	1.3	222	S 42 W	100	7.6	217	S 37 W	

RIO BRAVO
20-2 RU

DIP348

ROOSEVELT FIELD

UINTAH

UTAH

02-26-84

DEPTH	WI.	**FORMATION DIP**			GRADE	***BOREHOLE***		
		ANG	AZ	BEARING		DA	DAZ	BEARING
7926.0	8.00	1.6	280	N 80 W	100	7.6	217	S 37 W
7928.0	8.00	1.9	287	N 73 W	100	7.6	217	S 37 W
7930.0	8.00	2.2	302	N 58 W	100	7.7	217	S 37 W
7932.0	8.00	2.3	307	N 53 W	100	7.7	217	S 37 W
7934.0	8.00	2.2	300	N 60 W	100	7.7	217	S 37 W
7936.0	8.00	1.1	329	N 31 W	100	7.8	217	S 37 W
7938.0	8.00	2.9	313	N 47 W	100	7.7	216	S 36 W
7940.0	8.00	1.2	0	N 0 E	100	7.8	217	S 37 W
7942.0	8.00	2.6	336	N 24 W	100	7.8	217	S 37 W
7944.0	8.00	2.6	1	N 1 E	100	7.9	217	S 37 W
7946.0	8.00	3.3	345	N 15 W	100	7.8	217	S 37 W
7948.0	8.00	3.2	342	N 18 W	100	7.9	217	S 37 W
7950.0	8.00	2.9	328	N 32 W	100	7.9	217	S 37 W
7952.0	8.00	2.5	325	N 35 W	100	7.9	216	S 36 W
7954.0	8.00	2.7	323	N 37 W	100	7.9	217	S 37 W
7956.0	8.00	2.4	327	N 33 W	100	7.9	217	S 37 W
7958.0	8.00	2.1	326	N 34 W	100	7.9	217	S 37 W
7960.0	8.00	2.6	315	N 45 W	100	7.9	217	S 37 W
7962.0	8.00	3.2	307	N 53 W	100	7.9	216	S 36 W
7964.0	8.00	3.0	305	N 55 W	100	8.0	216	S 36 W
7966.0	8.00	2.7	302	N 58 W	100	7.9	216	S 36 W
7968.0	8.00	2.9	309	N 51 W	100	7.9	217	S 37 W
7970.0	8.00	2.7	321	N 39 W	100	7.9	215	S 35 W
7972.0	8.00	2.9	314	N 46 W	100	7.9	216	S 36 W
7974.0	8.00	3.0	321	N 39 W	82	8.0	216	S 36 W
7980.0	8.00	3.3	297	N 63 W	100	8.0	216	S 36 W
7982.0	8.00	3.1	283	N 77 W	100	8.0	215	S 35 W
7984.0	8.00	3.3	273	N 87 W	100	8.0	215	S 35 W
7986.0	8.00	3.9	246	S 66 W	100	8.0	215	S 35 W
7988.0	8.00	3.4	245	S 65 W	100	8.0	215	S 35 W
7990.0	8.00	9.1	87	N 87 E	100	8.1	215	S 35 W
7992.0	8.00	5.1	75	N 75 E	100	8.0	215	S 35 W
7994.0	8.00	3.2	76	N 76 E	100	8.0	215	S 35 W
7996.0	8.00	2.9	69	N 69 E	100	8.1	215	S 35 W
7998.0	8.00	2.9	23	N 23 E	100	8.1	215	S 35 W
8000.0	8.00	1.9	284	N 76 W	100	8.1	214	S 34 W
8002.0	8.00	1.9	277	N 83 W	100	8.1	214	S 34 W
8004.0	8.00	1.3	326	N 34 W	100	8.1	214	S 34 W
8006.0	8.00	1.9	345	N 15 W	100	8.1	215	S 35 W
8008.0	8.00	1.9	358	N 2 W	100	8.1	214	S 34 W

RIO BRAVO
20-2 RU

DIP348

ROOSEVELT FIELD

UINTAH

UTAH

02-26-84

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE***		
		ANG	AZ	BEARING	DA		DAZ	BEARING	
8010.0	8.00	1.5	356	N 4 W	100	8.2	215	S 35 W	
8012.0	8.00	0.7	338	N 22 W	100	8.2	214	S 34 W	
8014.0	8.00	1.2	18	N 18 E	100	8.2	215	S 35 W	
8016.0	8.00	1.3	1	N 1 E	100	8.2	214	S 34 W	
8018.0	8.00	1.6	350	N 10 W	100	8.3	214	S 34 W	
8020.0	8.00	1.7	325	N 35 W	100	8.2	214	S 34 W	
8022.0	8.00	1.3	310	N 50 W	100	8.3	214	S 34 W	
8024.0	8.00	1.0	311	N 49 W	100	8.3	214	S 34 W	
8026.0	8.00	1.1	337	N 23 W	100	8.3	214	S 34 W	
8028.0	8.00	1.2	358	N 2 W	100	8.3	214	S 34 W	
8030.0	8.00	3.4	357	N 3 W	100	8.3	214	S 34 W	
8032.0	8.00	20.2	277	N 83 W	100	8.3	213	S 33 W	
8034.0	8.00	2.8	351	N 9 W	100	8.4	214	S 34 W	
8036.0	8.00	1.9	358	N 2 W	100	8.4	214	S 34 W	
8038.0	8.00	1.6	2	N 2 E	100	8.4	214	S 34 W	
8040.0	8.00	2.9	4	N 4 E	100	8.4	214	S 34 W	
8042.0	8.00	3.3	25	N 25 E	100	8.4	213	S 33 W	
8044.0	8.00	0.4	358	N 2 W	100	8.4	213	S 33 W	
8046.0	8.00	0.8	1	N 1 E	100	8.5	214	S 34 W	
8048.0	8.00	1.2	0	N 0 E	100	8.5	213	S 33 W	
8050.0	8.00	0.5	344	N 16 W	100	8.5	213	S 33 W	
8052.0	8.00	1.5	39	N 39 E	100	8.6	214	S 34 W	
8054.0	8.00	1.1	48	N 48 E	100	8.6	214	S 34 W	
8056.0	8.00	1.8	177	S 3 E	100	8.7	214	S 34 W	
8058.0	8.00	1.4	30	N 30 E	100	8.8	214	S 34 W	
8060.0	8.00	1.5	305	N 55 W	99	8.9	213	S 33 W	
8062.0	8.00	0.7	128	S 52 E	100	9.0	213	S 33 W	
8064.0	8.00	0.3	89	N 89 E	100	9.0	214	S 34 W	
8066.0	8.00	1.0	21	N 21 E	100	9.1	214	S 34 W	
8068.0	8.00	1.6	330	N 30 W	100	9.2	214	S 34 W	
8070.0	8.00	2.2	2	N 2 E	100	9.2	215	S 35 W	
8072.0	8.00	2.2	2	N 2 E	100	9.2	215	S 35 W	
8074.0	8.00	1.6	358	N 2 W	100	9.3	215	S 35 W	
8076.0	8.00	3.0	341	N 19 W	100	9.3	215	S 35 W	
8078.0	8.00	2.1	355	N 5 W	100	9.4	214	S 34 W	
8080.0	8.00	1.5	9	N 9 E	100	9.4	213	S 33 W	
8082.0	8.00	4.2	352	N 8 W	100	9.4	213	S 33 W	
8084.0	8.00	2.1	19	N 19 E	100	9.3	213	S 33 W	
8086.0	8.00	3.4	1	N 1 E	100	9.3	213	S 33 W	
8088.0	8.00	3.3	11	N 11 E	100	9.2	212	S 32 W	

RIO BRAVO
20-2 PU

DIP348

PAGE 22

ROOSEVELT FIELD

UINTAH

UTAH

02-26-84

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE****			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
8090.0	8.00	3.8	5	N 5 E	100	9.4	212	S 32 W		
8092.0	8.00	4.6	11	N 11 E	100	9.3	212	S 32 W		
8094.0	8.00	3.1	41	N 41 E	100	9.3	211	S 31 W		
8096.0	8.00	2.8	36	N 36 E	100	9.4	211	S 31 W		
8098.0	8.00	2.3	34	N 34 E	100	9.4	211	S 31 W		
8100.0	8.00	2.8	33	N 33 E	100	9.4	211	S 31 W		
8102.0	8.00	2.6	17	N 17 E	100	9.4	211	S 31 W		
8104.0	8.00	1.9	328	N 32 W	100	9.4	211	S 31 W		
8106.0	8.00	0.7	275	N 85 W	100	9.4	210	S 30 W		
8108.0	8.00	0.2	100	S 80 E	100	9.5	210	S 30 W		
8110.0	8.00	0.2	28	N 28 E	100	9.5	210	S 30 W		
8112.0	8.00	0.5	23	N 23 E	100	9.6	210	S 30 W		
8114.0	8.00	1.2	50	N 50 E	100	9.6	210	S 30 W		
8120.0	8.00	5.5	192	S 12 W	92	9.7	209	S 29 W		
8122.0	8.00	2.1	221	S 41 W	100	9.7	209	S 29 W		
8124.0	8.00	1.4	339	N 21 W	100	9.8	209	S 29 W		
8126.0	8.00	1.5	354	N 6 W	100	9.7	209	S 29 W		
8128.0	8.00	2.3	341	N 19 W	100	9.8	209	S 29 W		
8130.0	8.00	2.3	350	N 10 W	100	9.9	209	S 29 W		
8132.0	8.00	2.4	278	N 82 W	100	9.8	209	S 29 W		
8134.0	8.00	2.0	331	N 29 W	100	9.9	209	S 29 W		
8136.0	8.00	0.3	44	N 44 E	100	9.9	208	S 28 W		
8138.0	8.00	1.5	226	S 46 W	100	10.0	208	S 28 W		
8140.0	8.00	3.8	331	N 29 W	100	9.9	208	S 28 W		
8142.0	8.00	2.9	300	N 60 W	100	10.0	207	S 27 W		
8144.0	8.00	23.1	274	N 86 W	77	10.0	207	S 27 W		
8146.0	8.00	1.6	218	S 38 W	73	10.1	207	S 27 W		
8148.0	8.00	3.7	252	S 72 W	58	10.1	207	S 27 W		
8156.0	8.00	1.4	300	N 60 W	86	10.2	206	S 26 W		
8158.0	8.00	2.7	312	N 48 W	100	10.2	207	S 27 W		
8160.0	8.00	2.0	299	N 61 W	100	10.3	206	S 26 W		
8162.0	8.00	14.5	136	S 44 E	87	10.3	206	S 26 W		
8164.0	8.00	2.0	42	N 42 E	100	10.3	206	S 26 W		
8168.0	8.00	3.6	339	N 21 W	100	10.4	206	S 26 W		
8170.0	8.00	4.2	312	N 48 W	100	10.4	205	S 25 W		
8172.0	8.00	4.4	312	N 48 W	100	10.4	206	S 26 W		
8174.0	8.00	2.9	314	N 46 W	100	10.5	205	S 25 W		
8176.0	8.00	3.6	322	N 38 W	100	10.4	205	S 25 W		
8178.0	8.00	3.1	317	N 43 W	100	10.5	205	S 25 W		
8180.0	8.00	2.1	330	N 30 W	100	10.5	205	S 25 W		

RIO BRAVO
20-2 PU

DIP348

ROOSEVELT FIELD

UINTAH

UTAH

02-26-84

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE***			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
8182.0	8.00	1.7	315	N 45 W	100	10.6	205	S 25 W		
8184.0	8.00	1.8	353	N 7 W	100	10.7	205	S 25 W		
8186.0	8.00	1.8	355	N 5 W	100	10.6	205	S 25 W		
8188.0	8.00	2.2	318	N 42 W	100	10.7	204	S 24 W		
8190.0	8.00	2.1	330	N 30 W	92	10.7	204	S 24 W		
8192.0	8.00	2.7	349	N 11 W	100	10.7	204	S 24 W		
8194.0	8.00	2.5	344	N 16 W	100	10.8	204	S 24 W		
8196.0	8.00	2.1	337	N 23 W	96	10.9	204	S 24 W		
8198.0	8.00	2.5	269	S 89 W	100	10.9	204	S 24 W		
8200.0	8.00	1.9	303	N 57 W	100	10.9	204	S 24 W		
8202.0	8.00	1.3	294	N 66 W	100	10.9	203	S 23 W		
8204.0	8.00	2.7	285	N 75 W	100	10.9	203	S 23 W		
8206.0	8.00	1.8	320	N 40 W	100	11.0	203	S 23 W		
8208.0	8.00	2.8	295	N 65 W	100	11.0	203	S 23 W		
8210.0	8.00	2.6	291	N 69 W	100	11.0	203	S 23 W		
8212.0	8.00	2.3	293	N 67 W	100	11.1	203	S 23 W		
8214.0	8.00	2.3	287	N 73 W	100	11.1	202	S 22 W		
8216.0	8.00	3.4	320	N 40 W	100	11.2	203	S 23 W		
8218.0	8.00	1.1	329	N 31 W	100	11.1	202	S 22 W		
8220.0	8.00	3.5	323	N 37 W	100	11.2	202	S 22 W		
8222.0	8.00	4.2	305	N 55 W	100	11.2	202	S 22 W		
8224.0	8.00	3.4	291	N 69 W	100	11.2	202	S 22 W		
8226.0	8.00	2.4	298	N 62 W	100	11.2	202	S 22 W		
8228.0	8.00	3.0	327	N 33 W	100	11.2	202	S 22 W		
8230.0	8.00	2.1	314	N 46 W	100	11.3	202	S 22 W		
8232.0	8.00	1.6	329	N 31 W	100	11.4	202	S 22 W		
8234.0	8.00	1.5	287	N 73 W	67	11.4	202	S 22 W		
8236.0	8.00	1.0	338	N 22 W	100	11.3	201	S 21 W		
8238.0	8.00	2.3	339	N 21 W	100	11.4	202	S 22 W		
8240.0	8.00	0.8	273	N 87 W	100	11.4	202	S 22 W		
8242.0	8.00	2.3	331	N 29 W	100	11.4	202	S 22 W		
8244.0	8.00	1.6	281	N 79 W	100	11.5	201	S 21 W		
8246.0	8.00	1.0	235	S 55 W	100	11.5	201	S 21 W		
8248.0	8.00	0.7	230	S 50 W	100	11.5	201	S 21 W		
8250.0	8.00	1.7	140	S 40 E	100	11.6	201	S 21 W		
8252.0	8.00	2.2	272	N 88 W	100	11.6	200	S 20 W		
8254.0	8.00	0.8	198	S 18 W	100	11.5	201	S 21 W		
8256.0	8.00	4.1	239	S 59 W	100	11.6	201	S 21 W		
8258.0	8.00	0.9	217	S 37 W	100	11.7	201	S 21 W		
8260.0	8.00	3.1	14	N 14 E	100	11.6	200	S 20 W		

RIO BRAVO
20-2 RU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

PAGE 24

UTAH

DEPTH	WL.	**FORMATION DIP**				GRADE	***BOREHOLE****		
		ANG	AZ	BEARING	DA		DAZ	BEARING	
8262.0	8.00	4.1	33	N 33 E	100	11.8	200	S 20 W	
8264.0	8.00	0.6	2	N 2 E	100	11.8	200	S 20 W	
8266.0	8.00	2.0	288	N 72 W	100	11.8	199	S 19 W	
8268.0	8.00	1.7	302	N 58 W	100	11.8	200	S 20 W	
8270.0	8.00	1.3	311	N 49 W	100	11.9	199	S 19 W	
8272.0	8.00	1.1	319	N 41 W	100	11.9	199	S 19 W	
8274.0	8.00	2.2	337	N 23 W	100	12.0	199	S 19 W	
8276.0	8.00	4.4	0	N 0 E	100	12.0	199	S 19 W	
8278.0	8.00	0.7	289	N 71 W	100	12.0	199	S 19 W	
8280.0	8.00	5.2	280	N 80 W	100	12.0	199	S 19 W	
8282.0	8.00	2.9	4	N 4 E	100	12.0	199	S 19 W	
8284.0	8.00	4.5	314	N 46 W	100	12.0	199	S 19 W	
8286.0	8.00	3.7	295	N 65 W	100	12.1	199	S 19 W	
8288.0	8.00	3.6	275	N 85 W	100	12.1	199	S 19 W	
8290.0	8.00	3.4	266	S 86 W	100	12.1	199	S 19 W	
8292.0	8.00	2.4	272	N 88 W	100	12.1	198	S 18 W	
8294.0	8.00	1.3	334	N 26 W	100	12.2	198	S 18 W	
8296.0	8.00	1.7	325	N 35 W	100	12.2	198	S 18 W	
8298.0	8.00	1.4	321	N 39 W	100	12.2	199	S 19 W	
8300.0	8.00	2.4	337	N 23 W	100	12.3	199	S 19 W	
8302.0	8.00	1.7	327	N 33 W	100	12.3	198	S 18 W	
8304.0	8.00	1.5	312	N 48 W	100	12.3	198	S 18 W	
8306.0	8.00	1.5	293	N 67 W	100	12.3	198	S 18 W	
8308.0	8.00	3.1	267	S 87 W	100	12.4	198	S 18 W	
8310.0	8.00	1.1	250	S 70 W	100	12.4	198	S 18 W	
8312.0	8.00	2.4	291	N 69 W	100	12.4	198	S 18 W	
8314.0	8.00	2.9	310	N 50 W	100	12.4	198	S 18 W	
8316.0	8.00	2.8	318	N 42 W	100	12.5	197	S 17 W	
8318.0	8.00	2.9	320	N 40 W	100	12.5	197	S 17 W	
8320.0	8.00	2.6	311	N 49 W	100	12.5	197	S 17 W	
8322.0	8.00	1.7	304	N 56 W	100	12.6	197	S 17 W	
8324.0	8.00	1.6	334	N 26 W	100	12.6	197	S 17 W	
8326.0	8.00	7.0	236	S 56 W	100	12.6	197	S 17 W	
8328.0	8.00	3.5	246	S 66 W	100	12.7	197	S 17 W	
8330.0	8.00	2.4	327	N 33 W	100	12.8	197	S 17 W	
8332.0	8.00	6.8	232	S 52 W	100	12.7	197	S 17 W	
8334.0	8.00	1.4	280	N 80 W	100	12.8	197	S 17 W	
8336.0	8.00	1.3	257	S 77 W	100	12.8	197	S 17 W	
8338.0	8.00	1.3	294	N 66 W	100	12.8	196	S 16 W	
8340.0	8.00	2.5	298	N 62 W	100	12.8	197	S 17 W	

RIO BRAVO
20-2 RU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

PAGE 25

UTAH

DEPTH	WL	**FORMATION DIP**				***BOREHOLE***			
		ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
8342.0	8.00	2.5	333	N 27 W	100	12.9	196	S 16 W	
8344.0	8.00	2.3	329	N 31 W	100	12.9	196	S 16 W	
8346.0	8.00	2.8	321	N 39 W	100	13.0	196	S 16 W	
8348.0	8.00	2.5	291	N 69 W	100	12.9	196	S 16 W	
8350.0	8.00	2.3	288	N 72 W	100	13.0	196	S 16 W	
8352.0	8.00	2.1	280	N 80 W	100	13.0	196	S 16 W	
8354.0	8.00	2.2	279	N 81 W	100	13.1	196	S 16 W	
8356.0	8.00	1.5	284	N 76 W	100	13.1	196	S 16 W	
8358.0	8.00	1.0	235	S 55 W	100	13.1	196	S 16 W	
8360.0	8.00	0.8	216	S 36 W	100	13.2	196	S 16 W	
8362.0	8.00	2.5	323	N 37 W	100	13.2	196	S 16 W	
8364.0	8.00	2.7	346	N 14 W	100	13.2	195	S 15 W	
8366.0	8.00	2.8	290	N 70 W	100	13.3	196	S 16 W	
8368.0	8.00	2.9	352	N 8 W	100	13.3	196	S 16 W	
8370.0	8.00	2.7	336	N 24 W	100	13.3	196	S 16 W	
8372.0	8.00	2.7	320	N 40 W	100	13.4	195	S 15 W	
8374.0	8.00	2.7	318	N 42 W	100	13.4	195	S 15 W	
8376.0	8.00	1.9	320	N 40 W	100	13.4	195	S 15 W	
8378.0	8.00	1.7	329	N 31 W	100	13.5	195	S 15 W	
8380.0	8.00	1.3	355	N 5 W	100	13.5	195	S 15 W	
8382.0	8.00	1.7	356	N 4 W	79	13.5	195	S 15 W	
8384.0	8.00	2.0	345	N 15 W	100	13.5	195	S 15 W	
8386.0	8.00	1.8	295	N 65 W	100	13.6	195	S 15 W	
8388.0	8.00	2.5	291	N 69 W	100	13.6	194	S 14 W	
8390.0	8.00	2.9	257	S 77 W	100	13.7	195	S 15 W	
8392.0	8.00	4.1	209	S 29 W	100	13.7	195	S 15 W	
8394.0	8.00	5.6	154	S 26 E	100	13.7	195	S 15 W	
8396.0	8.00	1.9	207	S 27 W	87	13.8	195	S 15 W	
8398.0	8.00	1.8	268	S 88 W	100	13.8	195	S 15 W	
8400.0	8.00	2.2	265	S 85 W	100	13.9	194	S 14 W	
8402.0	8.00	3.2	287	N 73 W	100	13.9	194	S 14 W	
8404.0	8.00	2.5	281	N 79 W	100	13.9	194	S 14 W	
8406.0	8.00	0.4	131	S 49 E	100	14.0	194	S 14 W	
8408.0	8.00	2.6	341	N 19 W	100	14.0	194	S 14 W	
8410.0	8.00	0.8	32	N 32 E	100	14.0	194	S 14 W	
8412.0	8.00	1.3	13	N 13 E	100	14.1	194	S 14 W	
8414.0	8.00	1.8	21	N 21 E	100	14.1	194	S 14 W	
8416.0	8.00	4.0	342	N 18 W	100	14.2	193	S 13 W	
8418.0	8.00	8.3	287	N 73 W	71	14.2	193	S 13 W	
8420.0	8.00	1.1	350	N 10 W	74	14.2	193	S 13 W	

RIO BRAVO
20-2 RU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

PAGE 26

UTAH

DEPTH	WL	**FORMATION DIP**			GRADE	***BOREHOLE***		
		ANG	AZ	BEARING		DA	DAZ	BEARING
8422.0	8.00	1.4	346	N 14 W	82	14.3	194	S 14 W
8424.0	8.00	1.7	332	N 28 W	81	14.3	193	S 13 W
8426.0	8.00	4.1	354	N 6 W	100	14.3	193	S 13 W
8428.0	8.00	3.7	358	N 2 W	100	14.4	193	S 13 W
8430.0	8.00	4.0	350	N 10 W	100	14.4	193	S 13 W
8432.0	8.00	3.4	358	N 2 W	100	14.5	193	S 13 W
8434.0	8.00	1.6	289	N 71 W	100	14.5	193	S 13 W
8436.0	8.00	1.5	299	N 61 W	74	14.6	193	S 13 W
8438.0	8.00	18.8	289	N 71 W	37	14.6	193	S 13 W
8440.0	8.00	2.1	247	S 67 W	100	14.7	193	S 13 W
8442.0	8.00	1.9	245	S 65 W	100	14.7	193	S 13 W
8444.0	8.00	2.3	248	S 68 W	100	14.7	193	S 13 W
8446.0	8.00	2.3	248	S 68 W	100	14.8	193	S 13 W
8448.0	8.00	10.2	262	S 82 W	100	14.8	192	S 12 W
8450.0	8.00	6.3	229	S 49 W	100	14.8	193	S 13 W
8452.0	8.00	7.0	238	S 58 W	98	14.9	192	S 12 W
8454.0	8.00	6.6	235	S 55 W	100	14.9	192	S 12 W
8456.0	8.00	1.1	212	S 32 W	100	15.0	192	S 12 W
8458.0	8.00	1.8	204	S 24 W	100	15.0	192	S 12 W
8460.0	8.00	1.0	236	S 56 W	100	15.0	193	S 13 W
8462.0	8.00	0.6	248	S 68 W	100	15.0	192	S 12 W
8464.0	8.00	2.0	359	N 1 W	100	15.1	192	S 12 W
8466.0	8.00	1.6	329	N 31 W	100	15.2	192	S 12 W
8468.0	8.00	1.7	27	N 27 E	100	15.2	192	S 12 W
8470.0	8.00	2.2	358	N 2 W	100	15.2	192	S 12 W
8472.0	8.00	2.3	30	N 30 E	100	15.3	192	S 12 W
8474.0	8.00	1.1	324	N 36 W	100	15.3	192	S 12 W
8476.0	8.00	6.2	250	S 70 W	100	15.4	192	S 12 W
8478.0	8.00	3.7	301	N 59 W	100	15.4	192	S 12 W
8480.0	8.00	2.8	305	N 55 W	100	15.4	192	S 12 W
8482.0	8.00	2.5	307	N 53 W	100	15.5	192	S 12 W
8484.0	8.00	2.4	311	N 49 W	100	15.5	192	S 12 W
8486.0	8.00	2.0	322	N 38 W	100	15.5	192	S 12 W
8488.0	8.00	2.3	330	N 30 W	100	15.5	192	S 12 W
8490.0	8.00	2.3	337	N 23 W	100	15.6	192	S 12 W
8492.0	8.00	3.3	318	N 42 W	100	15.6	192	S 12 W
8494.0	8.00	2.5	324	N 36 W	100	15.6	192	S 12 W
8496.0	8.00	2.6	325	N 35 W	100	15.7	191	S 11 W
8498.0	8.00	3.1	301	N 59 W	100	15.7	191	S 11 W
8500.0	8.00	2.2	333	N 27 W	100	15.7	191	S 11 W

RIO BRAVO
 20-2 RU
 ROOSEVELT FIELD
 UINTAH
 02-26-84

DIP348

UTAH

DEPTH	WL.	**FORMATION DIP**				GRADE	***BOREHOLE***			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
8502.0	8.00	1.0	268	S 88 W	100	15.7	191	S 11 W		
8504.0	8.00	1.0	227	S 47 W	100	15.8	191	S 11 W		
8506.0	8.00	1.5	350	N 10 W	100	15.8	191	S 11 W		
8508.0	8.00	1.5	4	N 4 E	100	15.9	191	S 11 W		
8510.0	8.00	1.1	354	N 6 W	100	15.9	191	S 11 W		
8512.0	8.00	1.2	344	N 16 W	100	15.9	191	S 11 W		
8514.0	8.00	1.6	285	N 75 W	100	15.9	191	S 11 W		
8516.0	8.00	2.3	272	N 88 W	100	16.0	191	S 11 W		
8518.0	8.00	0.5	215	S 35 W	100	16.0	191	S 11 W		
8520.0	8.00	0.8	215	S 35 W	100	16.0	191	S 11 W		
8522.0	8.00	3.7	273	N 87 W	100	16.1	191	S 11 W		
8524.0	8.00	3.2	305	N 55 W	100	16.1	191	S 11 W		
8526.0	8.00	2.9	327	N 33 W	100	16.1	191	S 11 W		
8528.0	8.00	1.6	340	N 20 W	100	16.1	190	S 10 W		
8530.0	8.00	1.5	1	N 1 E	100	16.2	191	S 11 W		
8532.0	8.00	1.1	48	N 48 E	100	16.2	191	S 11 W		
8534.0	8.00	0.8	326	N 34 W	100	16.2	191	S 11 W		
8536.0	8.00	0.5	245	S 65 W	100	16.3	190	S 10 W		
8538.0	8.00	0.6	307	N 53 W	100	16.3	191	S 11 W		
8540.0	8.00	1.4	303	N 57 W	100	16.3	191	S 11 W		
8542.0	8.00	1.4	306	N 54 W	100	16.3	191	S 11 W		
8544.0	8.00	1.3	351	N 9 W	100	16.3	191	S 11 W		
8546.0	8.00	1.2	354	N 6 W	100	16.3	191	S 11 W		
8548.0	8.00	1.2	33	N 33 E	100	16.4	191	S 11 W		
8550.0	8.00	1.3	347	N 13 W	100	16.4	191	S 11 W		
8552.0	8.00	3.7	8	N 8 E	99	16.4	191	S 11 W		
8554.0	8.00	1.2	9	N 9 E	95	16.5	191	S 11 W		
8556.0	8.00	17.4	330	N 30 W	81	16.5	190	S 10 W		
8558.0	8.00	17.0	335	N 25 W	84	16.5	191	S 11 W		
8560.0	8.00	1.4	230	S 50 W	100	16.5	190	S 10 W		
8562.0	8.00	1.8	192	S 12 W	100	16.5	191	S 11 W		
8564.0	8.00	2.3	149	S 31 E	100	16.6	190	S 10 W		
8566.0	8.00	2.4	169	S 11 E	100	16.6	191	S 11 W		
8568.0	8.00	2.2	173	S 7 E	100	16.6	190	S 10 W		
8570.0	8.00	1.4	165	S 15 E	100	16.6	190	S 10 W		
8572.0	8.00	0.6	177	S 3 E	100	16.6	190	S 10 W		
8574.0	8.00	0.2	165	S 15 E	100	16.6	190	S 10 W		
8576.0	8.00	1.5	291	N 69 W	100	16.7	190	S 10 W		
8578.0	8.00	0.2	240	S 60 W	100	16.6	191	S 11 W		
8580.0	8.00	1.9	183	S 3 W	100	16.6	190	S 10 W		

RIO BRAVO
20-2 RU

DIP348

PAGE 28

ROOSEVELT FIELD

UINTAH

UTAH

02-26-84

DEPTH	WL	**FORMATION DIP**				***BOREHOLE***			
		ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
8582.0	8.00	2.0	139	S 41 E	100	16.6	191	S 11 W	
8584.0	8.00	2.6	145	S 35 E	100	16.6	190	S 10 W	
8586.0	8.00	2.4	194	S 14 W	100	16.7	190	S 10 W	
8588.0	8.00	1.3	91	S 89 E	100	16.7	190	S 10 W	
8592.0	8.00	5.4	20	N 20 E	100	16.7	190	S 10 W	
8594.0	8.00	6.0	20	N 20 E	100	16.7	191	S 11 W	
8596.0	8.00	3.0	308	N 52 W	100	16.7	190	S 10 W	
8598.0	8.00	6.8	33	N 33 E	89	16.8	190	S 10 W	
8600.0	8.00	6.8	31	N 31 E	100	16.8	190	S 10 W	
8602.0	8.00	7.1	34	N 34 E	100	16.8	190	S 10 W	
8604.0	8.00	7.1	56	N 56 E	100	16.8	190	S 10 W	
8606.0	8.00	10.2	249	S 69 W	100	16.9	190	S 10 W	
8608.0	8.00	11.4	249	S 69 W	100	16.8	190	S 10 W	
8610.0	8.00	10.7	251	S 71 W	100	16.9	190	S 10 W	
8612.0	8.00	7.4	272	N 88 W	100	16.9	190	S 10 W	
8614.0	8.00	6.2	269	S 89 W	100	16.9	190	S 10 W	
8616.0	8.00	4.7	267	S 87 W	100	16.9	190	S 10 W	
8618.0	8.00	4.7	283	N 77 W	100	16.9	190	S 10 W	
8620.0	8.00	4.7	274	N 86 W	100	16.9	190	S 10 W	
8622.0	8.00	6.6	290	N 70 W	100	16.9	190	S 10 W	
8624.0	8.00	6.4	291	N 69 W	100	16.9	190	S 10 W	
8626.0	8.00	3.6	303	N 57 W	100	17.1	190	S 10 W	
8628.0	8.00	3.2	293	N 67 W	100	17.1	190	S 10 W	
8630.0	8.00	4.0	297	N 63 W	74	17.1	190	S 10 W	
8632.0	8.00	4.0	248	S 68 W	57	17.1	190	S 10 W	
8634.0	8.00	13.6	309	N 51 W	82	17.1	190	S 10 W	
8636.0	8.00	14.3	316	N 44 W	100	17.1	190	S 10 W	
8638.0	8.00	4.4	346	N 14 W	100	17.1	190	S 10 W	
8640.0	8.00	5.2	329	N 31 W	100	17.2	190	S 10 W	
8642.0	8.00	3.8	329	N 31 W	100	17.2	190	S 10 W	
8644.0	8.00	4.1	269	S 89 W	100	17.1	190	S 10 W	
8646.0	8.00	6.3	276	N 84 W	100	17.1	190	S 10 W	
8648.0	8.00	3.5	306	N 54 W	100	17.2	190	S 10 W	
8650.0	8.00	2.3	279	N 81 W	100	17.2	189	S 9 W	
8652.0	8.00	2.3	299	N 61 W	100	17.1	189	S 9 W	
8654.0	8.00	1.9	273	N 87 W	100	17.1	190	S 10 W	
8656.0	8.00	3.2	294	N 66 W	100	17.1	190	S 10 W	
8658.0	8.00	5.2	303	N 57 W	100	17.1	189	S 9 W	
8660.0	8.00	4.6	308	N 52 W	100	17.1	190	S 10 W	
8662.0	8.00	4.0	297	N 63 W	100	17.1	189	S 9 W	

RIO BRAVO
20-2 RU

DIP348

PAGE 29

ROOSEVELT FIELD
UINTAH
02-26-84

UTAH

DEPTH	WL.	**FORMATION DIP**				***BOREHOLE***			
		ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
8664.0	8.00	4.9	271	N 89 W	100	17.2	189	S 9 W	
8666.0	8.00	3.8	266	S 86 W	100	17.2	189	S 9 W	
8668.0	8.00	4.9	268	S 88 W	100	17.2	189	S 9 W	
8670.0	8.00	4.5	280	N 80 W	100	17.2	189	S 9 W	
8672.0	8.00	5.2	306	N 54 W	100	17.2	189	S 9 W	
8674.0	8.00	5.3	305	N 55 W	100	17.1	189	S 9 W	
8676.0	8.00	5.8	311	N 49 W	100	17.2	189	S 9 W	
8678.0	8.00	6.3	321	N 39 W	100	17.2	189	S 9 W	
8680.0	8.00	5.7	298	N 62 W	100	17.2	189	S 9 W	
8682.0	8.00	4.8	307	N 53 W	100	17.2	189	S 9 W	
8684.0	8.00	4.6	334	N 26 W	100	17.2	189	S 9 W	
8686.0	8.00	4.4	300	N 60 W	100	17.2	189	S 9 W	
8688.0	8.00	1.4	330	N 30 W	100	17.2	188	S 8 W	
8690.0	8.00	2.5	313	N 47 W	100	17.2	189	S 9 W	
8692.0	8.00	4.1	324	N 36 W	100	17.3	189	S 9 W	
8694.0	8.00	4.5	309	N 51 W	100	17.2	189	S 9 W	
8696.0	8.00	5.8	291	N 69 W	100	17.2	189	S 9 W	
8698.0	8.00	8.5	292	N 68 W	100	17.2	188	S 8 W	
8700.0	8.00	6.9	278	N 82 W	100	17.2	188	S 8 W	
8702.0	8.00	4.5	250	S 70 W	94	17.3	188	S 8 W	
8704.0	8.00	8.1	353	N 7 W	100	17.3	188	S 8 W	
8706.0	8.00	4.7	262	S 82 W	100	17.3	188	S 8 W	
8708.0	8.00	7.0	346	N 14 W	100	17.3	188	S 8 W	
8710.0	8.00	7.3	351	N 9 W	100	17.3	188	S 8 W	
8712.0	8.00	5.8	342	N 18 W	100	17.4	188	S 8 W	
8714.0	8.00	6.0	350	N 10 W	100	17.3	188	S 8 W	
8716.0	8.00	2.4	258	S 78 W	100	17.4	188	S 8 W	
8718.0	8.00	6.0	339	N 21 W	100	17.4	188	S 8 W	
8720.0	8.00	7.4	334	N 26 W	100	17.3	188	S 8 W	
8722.0	8.00	5.1	326	N 34 W	100	17.4	188	S 8 W	
8724.0	8.00	5.2	332	N 28 W	100	17.4	187	S 7 W	
8726.0	8.00	4.2	349	N 11 W	61	17.4	188	S 8 W	
8728.0	8.00	3.9	322	N 38 W	100	17.4	187	S 7 W	
8730.0	8.00	2.5	340	N 20 W	100	17.4	188	S 8 W	
8732.0	8.00	4.7	298	N 62 W	100	17.4	187	S 7 W	
8734.0	8.00	2.6	288	N 72 W	100	17.4	187	S 7 W	
8736.0	8.00	2.4	309	N 51 W	100	17.4	188	S 8 W	
8738.0	8.00	3.9	329	N 31 W	100	17.4	187	S 7 W	
8740.0	8.00	3.6	319	N 41 W	100	17.4	187	S 7 W	
8742.0	8.00	3.8	326	N 34 W	100	17.4	187	S 7 W	

RIO BRAVO

DIP348

20-2 RU

ROOSEVELT FIELD

UINTAH

UTAH

02-26-84

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE***			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
8744.0	8.00	3.8	338	N 22 W	100	17.5	187	S 7 W		
8746.0	8.00	3.6	331	N 29 W	100	17.4	187	S 7 W		
8748.0	8.00	3.7	339	N 21 W	100	17.4	187	S 7 W		
8750.0	8.00	3.8	331	N 29 W	100	17.4	187	S 7 W		
8752.0	8.00	3.7	318	N 42 W	100	17.5	187	S 7 W		
8754.0	8.00	3.7	336	N 24 W	100	17.4	187	S 7 W		
8756.0	8.00	4.3	317	N 43 W	100	17.5	187	S 7 W		
8758.0	8.00	5.1	342	N 18 W	100	17.4	187	S 7 W		
8760.0	8.00	5.7	318	N 42 W	100	17.4	187	S 7 W		
8762.0	8.00	4.5	53	N 53 E	93	17.4	187	S 7 W		
8764.0	8.00	5.0	322	N 38 W	100	17.4	186	S 6 W		
8766.0	8.00	5.1	332	N 28 W	100	17.4	186	S 6 W		
8768.0	8.00	4.7	328	N 32 W	100	17.4	187	S 7 W		
8770.0	8.00	3.2	349	N 11 W	100	17.4	186	S 6 W		
8772.0	8.00	3.7	328	N 32 W	100	17.5	186	S 6 W		
8774.0	8.00	2.9	334	N 26 W	100	17.5	187	S 7 W		
8776.0	8.00	2.7	352	N 8 W	100	17.5	186	S 6 W		
8778.0	8.00	2.2	333	N 27 W	100	17.5	186	S 6 W		
8780.0	8.00	2.2	312	N 48 W	100	17.5	186	S 6 W		
8782.0	8.00	1.9	303	N 57 W	100	17.5	186	S 6 W		
8784.0	8.00	2.1	290	N 70 W	100	17.5	186	S 6 W		
8786.0	8.00	1.5	302	N 58 W	100	17.5	186	S 6 W		
8788.0	8.00	2.0	344	N 16 W	100	17.5	186	S 6 W		
8790.0	8.00	2.1	17	N 17 E	100	17.5	186	S 6 W		
8792.0	8.00	8.2	6	N 6 E	83	17.5	186	S 6 W		
8794.0	8.00	8.9	30	N 30 E	89	17.5	186	S 6 W		
8796.0	8.00	10.3	359	N 1 W	100	17.5	186	S 6 W		
8798.0	8.00	10.1	357	N 3 W	100	17.5	186	S 6 W		
8800.0	8.00	10.1	347	N 13 W	100	17.5	186	S 6 W		
8802.0	8.00	8.3	318	N 42 W	100	17.5	185	S 5 W		
8804.0	8.00	6.3	19	N 19 E	100	17.4	186	S 6 W		
8806.0	8.00	6.0	8	N 8 E	100	17.5	186	S 6 W		
8808.0	8.00	9.1	2	N 2 E	100	17.5	186	S 6 W		
8810.0	8.00	9.4	3	N 3 E	100	17.6	185	S 5 W		
8812.0	8.00	9.5	4	N 4 E	100	17.6	185	S 5 W		
8814.0	8.00	9.4	0	N 0 E	100	17.6	186	S 6 W		
8816.0	8.00	7.9	12	N 12 E	100	17.6	185	S 5 W		
8818.0	8.00	2.9	284	N 76 W	100	17.6	186	S 6 W		
8820.0	8.00	1.9	259	S 79 W	100	17.6	185	S 5 W		
8822.0	8.00	1.2	287	N 73 W	100	17.6	186	S 6 W		

RIO BRAVO
20-2 RU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

PAGE 31

UTAH

DEPTH	WL	**FORMATION DIP**				***BOREHOLE***			
		ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
8824.0	8.00	2.0	249	S 69 W	100	17.6	185	S 5 W	
8826.0	8.00	1.8	264	S 84 W	100	17.6	185	S 5 W	
8828.0	8.00	4.0	301	N 59 W	100	17.6	185	S 5 W	
8830.0	8.00	5.7	352	N 8 W	100	17.6	185	S 5 W	
8832.0	8.00	4.8	343	N 17 W	100	17.7	185	S 5 W	
8834.0	8.00	5.0	355	N 5 W	100	17.6	185	S 5 W	
8838.0	8.00	10.0	357	N 3 W	84	17.6	185	S 5 W	
8840.0	8.00	9.4	338	N 22 W	67	17.6	185	S 5 W	
8842.0	8.00	9.9	353	N 7 W	100	17.7	185	S 5 W	
8844.0	8.00	5.9	344	N 16 W	100	17.7	185	S 5 W	
8846.0	8.00	3.6	357	N 3 W	100	17.6	185	S 5 W	
8848.0	8.00	4.1	359	N 1 W	100	17.6	185	S 5 W	
8850.0	8.00	3.1	357	N 3 W	100	17.7	185	S 5 W	
8852.0	8.00	2.8	42	N 42 E	100	17.7	185	S 5 W	
8854.0	8.00	4.9	357	N 3 W	97	17.7	185	S 5 W	
8856.0	8.00	6.6	7	N 7 E	100	17.7	185	S 5 W	
8858.0	8.00	8.0	6	N 6 E	100	17.7	185	S 5 W	
8860.0	8.00	6.9	3	N 3 E	100	17.6	185	S 5 W	
8862.0	8.00	3.9	358	N 2 W	100	17.7	185	S 5 W	
8864.0	8.00	4.4	357	N 3 W	100	17.7	185	S 5 W	
8866.0	8.00	4.2	317	N 43 W	100	17.8	185	S 5 W	
8868.0	8.00	4.1	320	N 40 W	100	17.8	185	S 5 W	
8870.0	8.00	3.1	334	N 26 W	100	17.7	185	S 5 W	
8872.0	8.00	3.4	335	N 25 W	100	17.8	185	S 5 W	
8874.0	8.00	4.3	342	N 18 W	100	17.8	184	S 4 W	
8876.0	8.00	3.6	336	N 24 W	100	17.9	184	S 4 W	
8878.0	8.00	5.7	343	N 17 W	100	17.8	184	S 4 W	
8880.0	8.00	5.6	347	N 13 W	100	17.8	185	S 5 W	
8882.0	8.00	6.6	292	N 68 W	100	17.8	184	S 4 W	
8884.0	8.00	6.7	305	N 55 W	100	17.8	184	S 4 W	
8886.0	8.00	5.3	336	N 24 W	100	17.8	184	S 4 W	
8888.0	8.00	7.3	332	N 28 W	100	17.7	184	S 4 W	
8890.0	8.00	5.4	350	N 10 W	100	17.8	184	S 4 W	
8892.0	8.00	3.3	299	N 61 W	100	17.8	184	S 4 W	
8894.0	8.00	3.1	322	N 38 W	100	17.9	185	S 5 W	
8896.0	8.00	2.6	315	N 45 W	100	17.9	184	S 4 W	
8898.0	8.00	3.2	327	N 33 W	100	17.8	184	S 4 W	
8900.0	8.00	3.7	331	N 29 W	100	17.8	184	S 4 W	
8902.0	8.00	2.9	323	N 37 W	100	17.8	184	S 4 W	
8904.0	8.00	2.8	337	N 23 W	100	17.8	184	S 4 W	

RIO BRAVO
20-2 RU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

UTAH

DEPTH	WL.	**FORMATION DIP**				GRADE	***BOREHOLE***			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
8906.0	8.00	1.4	255	S 75 W	100	17.8	184	S 4 W		
8908.0	8.00	1.7	262	S 82 W	100	17.8	184	S 4 W		
8910.0	8.00	3.0	316	N 44 W	100	17.9	184	S 4 W		
8912.0	8.00	3.3	306	N 54 W	100	17.9	184	S 4 W		
8914.0	8.00	2.3	308	N 52 W	100	17.9	184	S 4 W		
8916.0	8.00	2.4	329	N 31 W	100	17.9	184	S 4 W		
8918.0	8.00	2.6	331	N 29 W	100	18.0	184	S 4 W		
8920.0	8.00	2.7	334	N 26 W	100	18.0	183	S 3 W		
8922.0	8.00	2.3	328	N 32 W	100	18.0	184	S 4 W		
8924.0	8.00	2.6	319	N 41 W	100	18.0	184	S 4 W		
8926.0	8.00	4.7	328	N 32 W	100	17.9	184	S 4 W		
8928.0	8.00	3.7	320	N 40 W	100	17.9	184	S 4 W		
8930.0	8.00	1.8	306	N 54 W	100	17.9	184	S 4 W		
8932.0	8.00	1.9	292	N 68 W	100	17.9	184	S 4 W		
8934.0	8.00	2.7	311	N 49 W	100	17.9	184	S 4 W		
8936.0	8.00	1.9	281	N 79 W	100	17.9	184	S 4 W		
8938.0	8.00	6.1	200	S 20 W	77	17.9	183	S 3 W		
8940.0	8.00	5.1	293	N 67 W	92	17.9	183	S 3 W		
8942.0	8.00	11.8	258	S 78 W	86	18.0	183	S 3 W		
8944.0	8.00	12.5	265	S 85 W	100	18.0	184	S 4 W		
8946.0	8.00	11.1	255	S 75 W	100	18.0	183	S 3 W		
8948.0	8.00	8.8	250	S 70 W	100	18.0	184	S 4 W		
8950.0	8.00	6.2	279	N 81 W	100	18.0	183	S 3 W		
8952.0	8.00	2.5	66	N 66 E	100	18.0	183	S 3 W		
8964.0	8.00	3.7	319	N 41 W	100	18.0	183	S 3 W		
8966.0	8.00	2.7	297	N 63 W	100	18.0	183	S 3 W		
8968.0	8.00	2.1	210	S 30 W	100	18.0	183	S 3 W		
8970.0	8.00	3.9	345	N 15 W	100	18.0	183	S 3 W		
8972.0	8.00	1.0	263	S 83 W	100	18.1	183	S 3 W		
8974.0	8.00	0.8	279	N 81 W	100	18.0	183	S 3 W		
8976.0	8.00	0.5	252	S 72 W	100	18.0	183	S 3 W		
8978.0	8.00	1.5	330	N 30 W	100	18.0	183	S 3 W		
8980.0	8.00	3.0	331	N 29 W	100	18.1	183	S 3 W		
8982.0	8.00	3.6	335	N 25 W	100	18.1	183	S 3 W		
8984.0	8.00	3.9	341	N 19 W	100	18.1	183	S 3 W		
8986.0	8.00	5.0	322	N 38 W	100	18.0	183	S 3 W		
8988.0	8.00	9.2	357	N 3 W	100	18.1	183	S 3 W		
8990.0	8.00	11.7	8	N 8 E	50	18.0	183	S 3 W		
8996.0	8.00	13.4	341	N 19 W	55	18.3	184	S 4 W		
8998.0	8.00	7.3	1	N 1 E	75	18.1	184	S 4 W		

RIO BRAVO
 20-2 RU
 ROOSEVELT FIELD
 UINTAH
 02-26-84

DIP348

UTAH

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE****			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
9002.0	8.00	13.6	357	N 3 W	100	18.2	183	S 3 W		
9006.0	8.00	3.9	327	N 33 W	47	18.2	183	S 3 W		
9008.0	8.00	2.6	337	N 23 W	100	18.0	183	S 3 W		
9010.0	8.00	3.4	319	N 41 W	100	18.2	183	S 3 W		
9012.0	8.00	2.7	329	N 31 W	100	18.3	183	S 3 W		
9014.0	8.00	2.3	323	N 37 W	100	18.3	183	S 3 W		
9016.0	8.00	2.5	329	N 31 W	100	18.3	183	S 3 W		
9018.0	8.00	2.9	291	N 69 W	100	18.3	183	S 3 W		
9020.0	8.00	3.4	274	N 86 W	100	18.3	183	S 3 W		
9022.0	8.00	3.1	269	S 89 W	100	18.4	183	S 3 W		
9024.0	8.00	2.3	270	N 90 W	100	18.4	183	S 3 W		
9026.0	8.00	6.0	357	N 3 W	100	18.4	182	S 2 W		
9028.0	8.00	6.0	354	N 6 W	100	18.4	182	S 2 W		
9030.0	8.00	9.1	2	N 2 E	100	18.6	183	S 3 W		
9032.0	8.00	8.3	20	N 20 E	100	18.5	183	S 3 W		
9034.0	8.00	10.9	357	N 3 W	100	18.5	183	S 3 W		
9036.0	8.00	12.1	2	N 2 E	100	18.5	183	S 3 W		
9038.0	8.00	10.7	8	N 8 E	100	18.3	183	S 3 W		
9040.0	8.00	12.3	6	N 6 E	100	18.5	183	S 3 W		
9048.0	8.00	3.1	257	S 77 W	100	18.6	183	S 3 W		
9050.0	8.00	6.0	255	S 75 W	100	18.5	182	S 2 W		
9052.0	8.00	7.6	357	N 3 W	100	18.6	182	S 2 W		
9054.0	8.00	8.7	357	N 3 W	100	18.6	182	S 2 W		
9056.0	8.00	9.0	357	N 3 W	100	18.6	182	S 2 W		
9058.0	8.00	12.5	357	N 3 W	100	18.6	182	S 2 W		
9060.0	8.00	14.3	0	N 0 E	88	18.6	182	S 2 W		
9062.0	8.00	14.3	1	N 1 E	62	18.6	182	S 2 W		
9064.0	8.00	13.3	4	N 4 E	96	18.5	183	S 3 W		
9066.0	8.00	13.2	3	N 3 E	42	18.5	182	S 2 W		
9068.0	8.00	12.8	354	N 6 W	100	18.5	182	S 2 W		
9070.0	8.00	5.7	332	N 28 W	100	18.6	183	S 3 W		
9072.0	8.00	4.7	340	N 20 W	100	18.5	183	S 3 W		
9074.0	8.00	4.3	348	N 12 W	100	18.6	183	S 3 W		
9076.0	8.00	4.1	0	N 0 E	100	18.7	182	S 2 W		
9078.0	8.00	3.0	283	N 77 W	100	18.7	182	S 2 W		
9080.0	8.00	1.5	6	N 6 E	100	18.6	182	S 2 W		
9082.0	8.00	1.5	354	N 6 W	100	18.6	182	S 2 W		
9084.0	8.00	4.8	20	N 20 E	100	18.6	182	S 2 W		
9086.0	8.00	3.4	41	N 41 E	100	18.6	182	S 2 W		
9088.0	8.00	4.0	22	N 22 E	100	18.5	182	S 2 W		

RIO BRAVO
 20-2 RU
 ROOSEVELT FIELD
 UINTAH
 02-26-84

DIP348

UTAH

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE****			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
9090.0	8.00	5.2	8	N 8 E	100	18.6	182	S 2 W		
9092.0	8.00	4.7	339	N 21 W	100	18.6	182	S 2 W		
9094.0	8.00	4.6	344	N 16 W	100	18.7	182	S 2 W		
9096.0	8.00	4.2	338	N 22 W	100	18.6	182	S 2 W		
9098.0	8.00	2.4	145	S 55 E	87	18.6	182	S 2 W		
9100.0	8.00	2.8	354	N 6 W	100	18.6	182	S 2 W		
9102.0	8.00	3.3	349	N 11 W	100	18.5	182	S 2 W		
9104.0	8.00	4.4	344	N 16 W	100	18.5	182	S 2 W		
9106.0	8.00	5.3	35	N 35 E	100	18.5	181	S 1 W		
9108.0	8.00	6.8	8	N 8 E	100	18.5	181	S 1 W		
9110.0	8.00	10.4	359	N 1 W	100	18.5	182	S 2 W		
9112.0	8.00	9.5	5	N 5 E	100	18.5	182	S 2 W		
9114.0	8.00	11.8	337	N 23 W	97	18.5	182	S 2 W		
9116.0	8.00	5.6	340	N 20 W	100	18.4	182	S 2 W		
9118.0	8.00	4.9	344	N 16 W	100	18.5	181	S 1 W		
9120.0	8.00	3.6	12	N 12 E	100	18.5	181	S 1 W		
9122.0	8.00	4.9	350	N 10 W	100	18.5	182	S 2 W		
9124.0	8.00	2.1	244	S 64 W	100	18.5	181	S 1 W		
9126.0	8.00	17.3	125	S 55 E	60	18.5	181	S 1 W		
9128.0	8.00	13.9	358	N 2 W	100	18.4	182	S 2 W		
9130.0	8.00	13.4	4	N 4 E	100	18.4	181	S 1 W		
9132.0	8.00	13.5	3	N 3 E	100	18.5	181	S 1 W		
9134.0	8.00	12.7	5	N 5 E	100	18.5	181	S 1 W		
9136.0	8.00	9.4	339	N 21 W	80	18.4	181	S 1 W		
9138.0	8.00	7.6	338	N 22 W	100	18.5	181	S 1 W		
9140.0	8.00	6.8	345	N 15 W	100	18.4	181	S 1 W		
9142.0	8.00	8.6	10	N 10 E	100	18.4	181	S 1 W		
9144.0	8.00	4.4	0	N 0 E	100	18.5	181	S 1 W		
9146.0	8.00	6.0	2	N 2 E	100	18.5	181	S 1 W		
9148.0	8.00	8.8	1	N 1 E	100	18.5	181	S 1 W		
9150.0	8.00	11.1	4	N 4 E	100	18.4	181	S 1 W		
9152.0	8.00	11.1	3	N 3 E	100	18.3	181	S 1 W		
9154.0	8.00	10.9	2	N 2 E	100	18.4	181	S 1 W		
9156.0	8.00	11.8	2	N 2 E	100	18.4	181	S 1 W		
9158.0	8.00	13.2	2	N 2 E	100	18.4	181	S 1 W		
9160.0	8.00	12.8	359	N 1 W	92	18.2	181	S 1 W		
9162.0	8.00	8.9	9	N 9 E	100	18.3	181	S 1 W		
9164.0	8.00	8.7	7	N 7 E	100	18.4	180	S 0 E		
9166.0	8.00	11.4	13	N 13 E	72	18.4	181	S 1 W		
9168.0	8.00	5.1	348	N 12 W	87	18.4	180	S 0 E		

RIO BRAVO
20-2 RU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

UTAH

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE****			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
9170.0	8.00	1.6	4	N 4 E	100	18.4	180	S 0 E		
9172.0	8.00	6.0	349	N 11 W	100	18.3	181	S 1 W		
9174.0	8.00	6.3	348	N 12 W	100	18.3	180	S 0 E		
9176.0	8.00	5.8	356	N 4 W	100	18.4	181	S 1 W		
9178.0	8.00	4.9	266	S 86 W	63	18.3	181	S 1 W		
9180.0	8.00	13.4	291	N 69 W	81	18.3	180	S 0 E		
9182.0	8.00	12.7	290	N 70 W	63	18.4	180	S 0 E		
9184.0	8.00	6.9	335	N 25 W	88	18.4	181	S 1 W		
9186.0	8.00	3.3	326	N 34 W	96	18.4	180	S 0 E		
9188.0	8.00	4.1	7	N 7 E	56	18.3	180	S 0 E		
9190.0	8.00	4.7	7	N 7 E	100	18.3	180	S 0 E		
9192.0	8.00	5.9	15	N 15 E	100	18.2	180	S 0 E		
9194.0	8.00	8.5	3	N 3 E	100	18.3	180	S 0 E		
9196.0	8.00	9.5	9	N 9 E	100	18.2	180	S 0 E		
9202.0	8.00	11.6	96	S 84 E	100	18.1	180	S 0 E		
9204.0	8.00	9.6	214	S 34 W	73	18.1	180	S 0 E		
9206.0	8.00	6.6	183	S 3 W	100	18.2	180	S 0 E		
9208.0	8.00	3.9	11	N 11 E	100	18.2	180	S 0 E		
9212.0	8.00	4.8	335	N 25 W	27	18.2	180	S 0 E		
9214.0	8.00	13.1	173	S 7 E	93	18.1	180	S 0 E		
9216.0	8.00	2.9	344	N 16 W	82	18.1	180	S 0 E		
9218.0	8.00	15.1	173	S 7 E	83	18.2	181	S 1 W		
9220.0	8.00	6.9	16	N 16 E	90	18.1	180	S 0 E		
9222.0	8.00	9.9	356	N 4 W	83	18.1	180	S 0 E		
9224.0	8.00	10.6	2	N 2 E	100	18.1	180	S 0 E		
9226.0	8.00	10.0	356	N 4 W	100	18.1	180	S 0 E		
9228.0	8.00	9.9	355	N 5 W	100	18.1	180	S 0 E		
9230.0	8.00	8.5	60	N 60 E	86	18.1	180	S 0 E		
9232.0	8.00	0.0	0	N 0 E	70	18.1	180	S 0 E		
9236.0	8.00	23.0	263	S 83 W	35	18.0	180	S 0 E		
9238.0	8.00	20.7	286	N 74 W	61	18.0	180	S 0 E		
9240.0	8.00	18.5	288	N 72 W	100	18.1	180	S 0 E		
9242.0	8.00	13.4	242	S 62 W	100	18.0	180	S 0 E		
9244.0	8.00	17.7	244	S 64 W	40	18.0	180	S 0 E		
9250.0	8.00	3.4	260	S 80 W	100	18.1	180	S 0 E		
9252.0	8.00	8.4	338	N 22 W	100	18.0	180	S 0 E		
9254.0	8.00	7.1	310	N 50 W	100	18.1	180	S 0 E		
9256.0	8.00	6.6	347	N 13 W	100	18.1	180	S 0 E		
9258.0	8.00	7.0	1	N 1 E	100	18.1	180	S 0 E		
9260.0	8.00	6.6	4	N 4 E	100	18.1	180	S 0 E		

RIO BRAVO
20-2 RU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

UTAH

DEPTH	WL.	**FORMATION DIP**			GRADE	***BOREHOLE***			
		ANG	AZ	BEARING		DA	DAZ	BEARING	
9262.0	8.00	6.6	18	N 18 E	100	18.1	180	S	0 E
9264.0	8.00	4.8	10	N 10 E	100	18.0	180	S	0 E
9266.0	8.00	2.4	311	N 49 W	100	18.0	181	S	1 W
9268.0	8.00	4.1	357	N 3 W	100	18.0	180	S	0 E
9270.0	8.00	4.4	354	N 6 W	77	18.1	180	S	0 E
9272.0	8.00	4.6	347	N 13 W	70	18.0	180	S	0 E
9274.0	8.00	4.8	353	N 7 W	100	18.0	180	S	0 E
9276.0	8.00	4.0	342	N 18 W	100	18.0	180	S	0 E
9278.0	8.00	3.3	355	N 5 W	100	18.0	180	S	0 E
9280.0	8.00	0.5	27	N 27 E	100	18.1	180	S	0 E
9282.0	8.00	1.1	307	N 53 W	100	18.1	181	S	1 W
9284.0	8.00	0.6	326	N 34 W	100	18.0	181	S	1 W
9286.0	8.00	0.3	16	N 16 E	100	18.1	180	S	0 E
9288.0	8.00	1.5	343	N 17 W	100	18.2	181	S	1 W
9290.0	8.00	2.2	299	N 61 W	100	18.0	180	S	0 E
9292.0	8.00	2.4	318	N 42 W	100	18.1	180	S	0 E
9294.0	8.00	3.2	305	N 55 W	100	18.0	181	S	1 W
9296.0	8.00	3.9	299	N 61 W	100	18.0	180	S	0 E
9298.0	8.00	9.1	296	N 64 W	100	18.0	181	S	1 W
9300.0	8.00	11.1	297	N 63 W	100	18.0	180	S	0 E
9302.0	8.00	18.5	301	N 59 W	68	18.0	180	S	0 E
9304.0	8.00	10.3	1	N 1 E	100	18.0	181	S	1 W
9306.0	8.00	11.5	358	N 2 W	88	18.1	180	S	0 E
9308.0	8.00	11.8	351	N 9 W	100	18.2	181	S	1 W
9310.0	8.00	10.8	357	N 3 W	59	18.1	180	S	0 E
9312.0	8.00	10.1	7	N 7 E	61	18.0	180	S	0 E
9314.0	8.00	8.9	14	N 14 E	95	18.0	180	S	0 E
9316.0	8.00	8.5	16	N 16 E	100	18.0	180	S	0 E
9318.0	8.00	9.3	10	N 10 E	100	18.1	180	S	0 E
9320.0	8.00	8.0	214	S 34 W	60	18.0	180	S	0 E
9322.0	8.00	8.4	217	S 37 W	75	18.1	180	S	0 E
9324.0	8.00	14.9	293	N 67 W	37	18.1	181	S	1 W
9326.0	8.00	3.5	278	N 82 W	100	18.1	180	S	0 E
9328.0	8.00	10.7	43	N 43 E	70	18.1	181	S	1 W
9330.0	8.00	4.9	356	N 4 W	100	18.2	181	S	1 W
9332.0	8.00	1.2	205	S 25 W	82	18.2	180	S	0 E
9334.0	8.00	5.5	64	N 64 E	92	18.2	181	S	1 W
9336.0	8.00	2.0	345	N 15 W	66	18.1	181	S	1 W
9338.0	8.00	17.1	324	N 36 W	57	18.2	181	S	1 W
9342.0	8.00	13.4	340	N 20 W	100	18.3	181	S	1 W

RIO BRAVO
20-2 PU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

UTAH

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE****			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
9344.0	8.00	12.4	343	N 17 W	100	18.3	181	S	1 W	
9346.0	8.00	13.4	353	N 7 W	100	18.4	181	S	1 W	
9348.0	8.00	13.6	352	N 8 W	100	18.2	181	S	1 W	
9350.0	8.00	13.5	353	N 7 W	78	18.3	180	S	0 E	
9360.0	8.00	8.8	165	S 15 E	100	18.4	181	S	1 W	
9362.0	8.00	7.1	159	S 21 E	100	18.3	181	S	1 W	
9364.0	8.00	9.4	180	S 0 E	100	18.4	181	S	1 W	
9366.0	8.00	8.8	170	S 10 E	100	18.4	181	S	1 W	
9368.0	8.00	11.8	259	S 79 W	100	18.4	181	S	1 W	
9370.0	8.00	17.8	285	N 75 W	90	18.4	181	S	1 W	
9372.0	8.00	3.8	288	N 72 W	100	18.4	181	S	1 W	
9374.0	8.00	6.1	14	N 14 E	100	18.4	181	S	1 W	
9376.0	8.00	3.1	149	S 31 E	100	18.5	181	S	1 W	
9378.0	8.00	6.7	195	S 15 W	77	18.6	181	S	1 W	
9380.0	8.00	2.8	182	S 2 W	100	18.6	180	S	0 E	
9382.0	8.00	3.5	141	S 39 E	100	18.5	181	S	1 W	
9384.0	8.00	6.8	205	S 25 W	100	18.5	181	S	1 W	
9386.0	8.00	4.0	308	N 52 W	100	18.5	181	S	1 W	
9388.0	8.00	2.8	234	S 54 W	100	18.6	181	S	1 W	
9390.0	8.00	3.7	213	S 33 W	100	18.5	181	S	1 W	
9392.0	8.00	1.9	336	N 24 W	100	18.6	181	S	1 W	
9394.0	8.00	1.1	348	N 12 W	81	18.6	181	S	1 W	
9396.0	8.00	3.3	265	S 85 W	100	18.6	181	S	1 W	
9398.0	8.00	6.2	303	N 57 W	100	18.6	181	S	1 W	
9400.0	8.00	6.4	303	N 57 W	100	18.6	181	S	1 W	
9402.0	8.00	6.2	302	N 58 W	100	18.7	181	S	1 W	
9404.0	8.00	5.5	306	N 54 W	100	18.7	180	S	0 E	
9406.0	8.00	6.2	321	N 39 W	100	18.7	181	S	1 W	
9408.0	8.00	7.0	336	N 24 W	100	18.7	181	S	1 W	
9410.0	8.00	8.8	346	N 14 W	78	18.7	181	S	1 W	
9414.0	8.00	10.2	3	N 3 E	100	18.7	181	S	1 W	
9416.0	8.00	7.0	318	N 42 W	63	18.7	181	S	1 W	
9418.0	8.00	4.2	317	N 43 W	100	18.7	181	S	1 W	
9420.0	8.00	8.0	308	N 52 W	100	18.7	181	S	1 W	
9422.0	8.00	8.4	302	N 58 W	100	18.7	181	S	1 W	
9424.0	8.00	14.8	358	N 2 W	100	18.7	180	S	0 E	
9426.0	8.00	5.4	315	N 45 W	84	18.7	181	S	1 W	
9428.0	8.00	11.9	351	N 9 W	100	18.8	181	S	1 W	
9430.0	8.00	11.9	348	N 12 W	100	18.7	180	S	0 E	
9432.0	8.00	11.2	352	N 8 W	100	18.8	180	S	0 E	

RIO BRAVO
20-2 RU

DIP348

ROOSEVELT FIELD

UINTAH

UTAH

02-26-84

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE****			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
9434.0	8.00	10.0	274	N 86 W	100	18.8	180	S 0 E		
9436.0	8.00	1.9	31	N 31 E	100	18.8	180	S 0 E		
9438.0	8.00	9.7	286	N 74 W	100	18.8	180	S 0 E		
9440.0	8.00	1.8	355	N 5 W	100	18.9	180	S 0 E		
9442.0	8.00	7.0	36	N 36 E	100	18.9	180	S 0 E		
9444.0	8.00	8.0	135	S 45 E	84	18.9	180	S 0 E		
9446.0	8.00	7.3	3	N 3 E	86	18.9	180	S 0 E		
9448.0	8.00	5.8	329	N 31 W	77	18.9	180	S 0 E		
9450.0	8.00	5.6	346	N 14 W	100	18.9	180	S 0 E		
9452.0	8.00	1.4	259	S 79 W	100	18.9	180	S 0 E		
9454.0	8.00	3.1	245	S 65 W	100	19.0	180	S 0 E		
9456.0	8.00	2.2	300	N 60 W	100	18.9	180	S 0 E		
9458.0	8.00	1.6	234	S 54 W	100	19.0	180	S 0 E		
9460.0	8.00	2.6	342	N 18 W	100	19.1	180	S 0 E		
9462.0	8.00	4.9	322	N 38 W	100	19.0	180	S 0 E		
9464.0	8.00	1.9	146	S 34 E	100	19.0	180	S 0 E		
9466.0	8.00	13.8	356	N 4 W	100	19.1	180	S 0 E		
9468.0	8.00	13.8	355	N 5 W	90	19.0	180	S 0 E		
9470.0	8.00	9.8	288	N 72 W	38	19.1	180	S 0 E		
9472.0	8.00	4.0	125	S 55 E	92	19.1	180	S 0 E		
9474.0	8.00	4.8	219	S 39 W	100	19.2	180	S 0 E		
9476.0	8.00	2.7	43	N 43 E	100	19.1	180	S 0 E		
9478.0	8.00	4.0	41	N 41 E	100	19.1	180	S 0 E		
9480.0	8.00	3.8	201	S 21 W	100	19.1	180	S 0 E		
9482.0	8.00	3.2	199	S 19 W	100	19.2	180	S 0 E		
9484.0	8.00	9.7	250	S 70 W	57	19.2	180	S 0 E		
9486.0	8.00	11.1	250	S 70 W	100	19.3	180	S 0 E		
9488.0	8.00	7.0	282	N 78 W	100	19.3	180	S 0 E		
9490.0	8.00	6.2	307	N 53 W	100	19.2	180	S 0 E		
9492.0	8.00	18.0	244	S 64 W	70	19.3	180	S 0 E		
9494.0	8.00	14.6	171	S 9 E	57	19.3	180	S 0 E		
9496.0	8.00	11.4	357	N 3 W	100	19.3	180	S 0 E		
9498.0	8.00	21.5	240	S 60 W	76	19.4	180	S 0 E		
9500.0	8.00	7.2	345	N 15 W	91	19.4	180	S 0 E		
9502.0	8.00	5.0	341	N 19 W	100	19.4	180	S 0 E		
9504.0	8.00	7.4	358	N 2 W	100	19.5	179	S 1 E		
9506.0	8.00	7.0	2	N 2 E	100	19.5	180	S 0 E		
9508.0	8.00	12.5	1	N 1 E	100	19.5	180	S 0 E		
9510.0	8.00	12.0	355	N 5 W	100	19.4	180	S 0 E		
9512.0	8.00	13.0	344	N 16 W	100	19.5	179	S 1 E		

RIO BRAVO
20-2 RU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

UTAH

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE***			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
9514.0	8.00	8.1	34	N 34 E	100	19.5	179	S	1 E	
9516.0	8.00	7.8	28	N 28 E	100	19.4	179	S	1 E	
9518.0	8.00	3.9	355	N 5 W	100	19.4	180	S	0 E	
9520.0	8.00	3.5	344	N 16 W	87	19.5	179	S	1 E	
9522.0	8.00	3.5	324	N 36 W	100	19.6	180	S	0 E	
9524.0	8.00	12.3	31	N 31 E	72	19.5	179	S	1 E	
9528.0	8.00	9.6	325	N 35 W	81	19.6	179	S	1 E	
9530.0	8.00	16.0	293	N 67 W	62	19.7	179	S	1 E	
9534.0	8.00	10.0	285	N 75 W	94	19.7	179	S	1 E	
9536.0	8.00	12.5	334	N 26 W	100	19.8	180	S	0 E	
9538.0	8.00	1.6	91	S 89 E	100	19.8	179	S	1 E	
9540.0	8.00	4.7	351	N 9 W	100	19.7	179	S	1 E	
9542.0	8.00	13.2	358	N 2 W	76	19.8	179	S	1 E	
9544.0	8.00	13.5	359	N 1 W	100	19.8	179	S	1 E	
9546.0	8.00	12.3	359	N 1 W	100	19.9	179	S	1 E	
9548.0	8.00	3.2	36	N 36 E	100	19.9	179	S	1 E	
9550.0	8.00	0.5	314	N 46 W	100	19.9	179	S	1 E	
9552.0	5.00	5.3	196	S 16 W	100	19.9	179	S	1 E	
9554.0	8.00	2.8	153	S 27 E	100	19.9	179	S	1 E	
9556.0	8.00	0.5	40	N 40 E	100	20.0	179	S	1 E	
9558.0	8.00	1.6	213	S 33 W	100	20.0	178	S	2 E	
9560.0	8.00	6.8	181	S 1 W	100	20.0	179	S	1 E	
9562.0	8.00	6.3	337	N 23 W	100	20.0	179	S	1 E	
9564.0	8.00	6.5	338	N 22 W	100	20.0	179	S	1 E	
9566.0	8.00	5.7	335	N 25 W	100	20.0	179	S	1 E	
9568.0	8.00	6.2	257	S 77 W	100	20.1	178	S	2 E	
9570.0	8.00	1.9	223	S 43 W	100	20.1	179	S	1 E	
9572.0	8.00	1.7	199	S 19 W	100	20.2	179	S	1 E	
9574.0	8.00	1.4	313	N 47 W	100	20.2	179	S	1 E	
9576.0	8.00	5.2	321	N 39 W	100	20.2	179	S	1 E	
9578.0	8.00	3.6	341	N 19 W	100	20.2	178	S	2 E	
9580.0	8.00	9.7	337	N 23 W	100	20.3	178	S	2 E	
9582.0	8.00	10.5	355	N 5 W	100	20.3	179	S	1 E	
9584.0	8.00	8.9	356	N 4 W	82	20.2	179	S	1 E	
9586.0	8.00	8.7	350	N 10 W	74	20.3	178	S	2 E	
9588.0	8.00	1.5	308	N 52 W	100	20.4	179	S	1 E	
9590.0	8.00	3.9	354	N 6 W	100	20.4	178	S	2 E	
9592.0	8.00	2.5	270	N 90 W	100	20.4	179	S	1 E	
9594.0	8.00	2.8	271	N 89 W	100	20.4	179	S	1 E	
9596.0	8.00	3.0	279	N 81 W	100	20.5	178	S	2 E	

RIO BRAVO

DIP348

20-2 RU

ROOSEVELT FIELD

UINTAH

UTAH

02-26-84

DEPTH	WL.	**FORMATION DIP**				GRADE	***BOREHOLE***			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
9598.0	8.00	2.6	169	S 11 E	100	20.5	179	S 1 E		
9600.0	8.00	0.5	116	S 64 E	100	20.5	178	S 2 E		
9602.0	8.00	3.9	297	N 63 W	100	20.5	179	S 1 E		
9604.0	8.00	7.5	355	N 5 W	99	20.6	178	S 2 E		
9606.0	8.00	7.5	257	S 77 W	100	20.6	178	S 2 E		
9608.0	8.00	4.1	255	S 75 W	100	20.6	178	S 2 E		
9610.0	8.00	4.3	255	S 75 W	100	20.7	178	S 2 E		
9612.0	8.00	2.4	287	N 73 W	100	20.7	178	S 2 E		
9614.0	8.00	2.9	301	N 59 W	100	20.7	178	S 2 E		
9616.0	8.00	4.1	347	N 13 W	100	20.7	178	S 2 E		
9618.0	8.00	5.8	4	N 4 E	100	20.8	178	S 2 E		
9620.0	8.00	8.0	19	N 19 E	79	20.8	178	S 2 E		
9622.0	8.00	4.5	41	N 41 E	100	20.8	178	S 2 E		
9624.0	8.00	9.9	234	S 54 W	79	20.8	178	S 2 E		
9626.0	8.00	5.4	352	N 8 W	100	20.9	178	S 2 E		
9628.0	8.00	4.0	0	N 0 E	100	20.9	178	S 2 E		
9630.0	8.00	6.0	277	N 83 W	100	20.9	178	S 2 E		
9632.0	8.00	6.4	345	N 15 W	100	21.0	178	S 2 E		
9634.0	8.00	6.8	265	S 85 W	100	21.0	178	S 2 E		
9636.0	8.00	8.9	263	S 83 W	100	21.0	178	S 2 E		
9638.0	8.00	0.4	97	S 83 E	100	21.1	178	S 2 E		
9640.0	8.00	2.0	244	S 64 W	100	21.1	178	S 2 E		
9642.0	8.00	0.6	308	N 52 W	100	21.2	178	S 2 E		
9644.0	8.00	3.3	325	N 35 W	100	21.2	178	S 2 E		
9646.0	8.00	6.3	333	N 27 W	100	21.2	178	S 2 E		
9648.0	8.00	5.5	352	N 8 W	100	21.2	178	S 2 E		
9650.0	8.00	6.7	322	N 38 W	100	21.3	178	S 2 E		
9652.0	8.00	6.9	316	N 44 W	100	21.3	178	S 2 E		
9654.0	8.00	9.8	343	N 17 W	100	21.4	178	S 2 E		
9658.0	3.00	2.4	159	S 21 E	79	21.4	178	S 2 E		
9660.0	8.00	17.8	243	S 63 W	65	21.5	178	S 2 E		
9664.0	8.00	9.5	336	N 24 W	52	21.6	178	S 2 E		
9670.0	8.00	6.6	279	N 81 W	100	21.6	178	S 2 E		
9672.0	8.00	4.0	338	N 22 W	100	21.7	177	S 3 E		
9674.0	8.00	8.4	330	N 30 W	100	21.8	178	S 2 E		
9676.0	8.00	8.5	263	S 83 W	100	21.8	177	S 3 E		
9678.0	8.00	8.6	332	N 28 W	100	21.9	178	S 2 E		
9680.0	8.00	8.3	326	N 34 W	100	21.9	178	S 2 E		
9682.0	8.00	8.6	157	S 23 E	92	22.0	178	S 2 E		
9684.0	8.00	13.1	164	S 16 E	81	22.0	177	S 3 E		

RIO BRAVO
20-2 RU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

UTAH

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE****			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
9686.0	8.00	12.7	163	S 17 E	100	22.0	177	S 3 E		
9688.0	8.00	10.2	211	S 31 W	100	22.0	178	S 2 E		
9690.0	8.00	14.3	228	S 48 W	75	22.1	177	S 3 E		
9692.0	8.00	7.4	147	S 33 E	60	22.2	177	S 3 E		
9694.0	8.00	5.6	276	N 84 W	100	22.3	177	S 3 E		
9696.0	8.00	5.9	331	N 29 W	100	22.3	177	S 3 E		
9698.0	8.00	4.1	282	N 78 W	100	22.3	177	S 3 E		
9700.0	8.00	2.7	291	N 69 W	100	22.3	177	S 3 E		
9702.0	8.00	2.1	293	N 67 W	100	22.3	177	S 3 E		
9704.0	8.00	2.3	297	N 63 W	100	22.4	177	S 3 E		
9706.0	8.00	2.3	306	N 54 W	100	22.4	177	S 3 E		
9708.0	8.00	1.3	315	N 45 W	100	22.5	177	S 3 E		
9710.0	8.00	1.5	294	N 66 W	100	22.5	177	S 3 E		
9712.0	8.00	2.1	286	N 74 W	100	22.5	177	S 3 E		
9714.0	8.00	6.4	233	S 53 W	100	22.5	177	S 3 E		
9716.0	8.00	5.2	354	N 6 W	100	22.6	177	S 3 E		
9718.0	8.00	5.3	352	N 8 W	100	22.6	177	S 3 E		
9720.0	8.00	5.6	353	N 7 W	100	22.6	177	S 3 E		
9722.0	8.00	5.3	354	N 6 W	100	22.7	177	S 3 E		
9724.0	8.00	6.4	222	S 42 W	100	22.7	177	S 3 E		
9726.0	8.00	1.5	326	N 34 W	100	22.7	177	S 3 E		
9728.0	8.00	1.7	310	N 50 W	100	22.8	177	S 3 E		
9730.0	8.00	1.0	277	N 83 W	100	22.8	176	S 4 E		
9732.0	8.00	2.0	324	N 36 W	100	22.9	176	S 4 E		
9734.0	8.00	3.9	178	S 2 E	100	22.9	177	S 3 E		
9736.0	8.00	9.5	230	S 50 W	100	22.9	176	S 4 E		
9738.0	8.00	2.7	19	N 19 E	100	23.0	176	S 4 E		
9740.0	8.00	6.0	220	S 40 W	100	23.1	176	S 4 E		
9742.0	8.00	6.2	216	S 36 W	100	23.1	177	S 3 E		
9744.0	8.00	6.4	347	N 13 W	89	23.1	176	S 4 E		
9746.0	8.00	7.5	172	S 8 E	100	23.1	176	S 4 E		
9748.0	8.00	10.6	168	S 12 E	100	23.1	176	S 4 E		
9750.0	8.00	5.4	307	N 53 W	88	23.2	176	S 4 E		
9752.0	8.00	10.3	345	N 15 W	100	23.2	176	S 4 E		
9754.0	8.00	2.6	345	N 15 W	100	23.2	176	S 4 E		
9756.0	8.00	5.6	338	N 22 W	100	23.3	176	S 4 E		
9758.0	8.00	5.9	357	N 3 W	100	23.3	176	S 4 E		
9760.0	8.00	6.5	15	N 15 E	100	23.3	176	S 4 E		
9764.0	8.00	12.4	231	S 51 W	74	23.4	176	S 4 E		
9766.0	8.00	14.1	161	S 19 E	100	23.5	176	S 4 E		

RIO BRAVO
20-2 RU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

UTAH

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE***			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
9768.0	8.00	9.5	154	S 26 E	100	23.6	176	S 4 E		
9770.0	8.00	10.9	358	N 2 W	100	23.6	176	S 4 E		
9772.0	8.00	13.9	359	N 1 W	100	23.6	176	S 4 E		
9774.0	8.00	15.1	358	N 2 W	100	23.6	176	S 4 E		
9776.0	8.00	14.9	359	N 1 W	100	23.7	176	S 4 E		
9778.0	8.00	15.0	1	N 1 E	100	23.7	176	S 4 E		
9780.0	8.00	9.5	12	N 12 E	63	23.7	176	S 4 E		
9782.0	8.00	9.7	1	N 1 E	73	23.8	176	S 4 E		
9784.0	8.00	5.0	175	S 5 E	100	23.8	176	S 4 E		
9786.0	8.00	5.6	177	S 3 E	100	23.9	176	S 4 E		
9788.0	8.00	4.6	178	S 2 E	100	24.0	176	S 4 E		
9790.0	8.00	1.8	183	S 3 W	84	24.1	176	S 4 E		
9792.0	8.00	6.0	324	N 36 W	100	24.0	176	S 4 E		
9794.0	8.00	3.6	281	N 79 W	100	24.0	176	S 4 E		
9796.0	8.00	5.7	345	N 15 W	100	24.2	176	S 4 E		
9798.0	8.00	5.5	357	N 3 W	93	24.1	176	S 4 E		
9800.0	8.00	10.6	236	S 56 W	100	24.2	176	S 4 E		
9802.0	8.00	8.7	232	S 52 W	100	24.3	176	S 4 E		
9804.0	8.00	10.0	235	S 55 W	100	24.3	176	S 4 E		
9808.0	8.00	19.1	350	N 10 W	60	24.4	176	S 4 E		
9810.0	8.00	18.0	359	N 1 W	65	24.6	176	S 4 E		
9812.0	8.00	16.9	1	N 1 E	77	24.6	176	S 4 E		
9814.0	8.00	5.3	285	N 75 W	94	24.5	176	S 4 E		
9816.0	8.00	1.5	295	N 65 W	93	24.5	176	S 4 E		
9818.0	8.00	5.8	286	N 74 W	100	24.6	176	S 4 E		
9820.0	8.00	7.0	348	N 12 W	100	24.6	176	S 4 E		
9822.0	8.00	5.7	28	N 28 E	100	24.7	176	S 4 E		
9824.0	8.00	6.4	353	N 7 W	100	24.8	176	S 4 E		
9826.0	8.00	3.1	271	N 89 W	100	24.8	176	S 4 E		
9828.0	8.00	2.7	336	N 24 W	100	24.9	176	S 4 E		
9830.0	8.00	3.5	250	S 70 W	100	24.8	176	S 4 E		
9832.0	8.00	2.7	242	S 62 W	100	24.9	176	S 4 E		
9834.0	8.00	3.7	239	S 59 W	100	25.0	176	S 4 E		
9836.0	8.00	2.4	229	S 49 W	97	25.0	176	S 4 E		
9838.0	8.00	12.8	157	S 23 E	62	25.0	176	S 4 E		
9840.0	8.00	4.0	21	N 21 E	100	25.1	176	S 4 E		
9842.0	8.00	9.4	4	N 4 E	100	25.1	176	S 4 E		
9844.0	8.00	14.7	354	N 6 W	100	25.2	176	S 4 E		
9846.0	8.00	13.0	40	N 40 E	100	25.2	176	S 4 E		
9848.0	8.00	5.7	352	N 8 W	100	25.3	175	S 5 E		

RIO BRAVO
20-2 RU

DIP348

ROOSEVELT FIELD

UINTAH

UTAH

02-26-84

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE****			
		ANG	AZ	BEARING			DA	DAZ	BEARING	
9850.0	8.00	5.1	161	S 19 E	100	25.3	176	S 4 E		
9854.0	8.00	11.0	235	S 55 W	60	25.3	176	S 4 E		
9862.0	8.00	9.6	350	N 10 W	56	25.6	176	S 4 E		
9864.0	8.00	11.2	317	N 43 W	50	25.6	175	S 5 E		
9866.0	8.00	18.2	334	N 26 W	70	25.7	175	S 5 E		
9868.0	8.00	14.0	1	N 1 E	87	25.7	175	S 5 E		
9870.0	8.00	14.2	1	N 1 E	100	25.7	176	S 4 E		
9872.0	8.00	15.7	358	N 2 W	62	25.7	176	S 4 E		
9874.0	8.00	12.8	11	N 11 E	75	25.8	175	S 5 E		
9876.0	8.00	2.1	99	S 81 E	95	25.9	175	S 5 E		
9878.0	8.00	3.9	179	S 1 E	89	26.0	176	S 4 E		
9880.0	8.00	4.4	138	S 42 E	100	26.1	176	S 4 E		
9882.0	8.00	2.0	211	S 31 W	100	26.0	175	S 5 E		
9884.0	8.00	5.6	147	S 33 E	100	26.1	176	S 4 E		
9886.0	8.00	2.7	244	S 64 W	100	26.2	175	S 5 E		
9888.0	8.00	3.8	265	S 85 W	100	26.1	175	S 5 E		
9890.0	8.00	6.6	187	S 7 W	100	26.2	175	S 5 E		
9892.0	8.00	14.6	3	N 3 E	100	26.2	176	S 4 E		
9894.0	8.00	15.1	4	N 4 E	100	26.3	176	S 4 E		
9896.0	8.00	15.3	2	N 2 E	100	26.3	175	S 5 E		
9898.0	8.00	11.4	358	N 2 W	100	26.3	176	S 4 E		
9900.0	8.00	4.7	196	S 16 W	89	26.4	175	S 5 E		
9902.0	8.00	11.1	327	N 33 W	100	26.5	176	S 4 E		
9904.0	8.00	9.4	348	N 12 W	64	26.5	175	S 5 E		
9906.0	8.00	4.0	354	N 6 W	100	26.5	176	S 4 E		
9908.0	8.00	6.4	339	N 21 W	100	26.6	175	S 5 E		
9910.0	8.00	7.0	359	N 1 W	100	26.6	175	S 5 E		
9912.0	8.00	6.3	343	N 17 W	100	26.6	175	S 5 E		
9914.0	8.00	12.5	0	N 0 E	80	26.6	176	S 4 E		
9916.0	8.00	15.2	359	N 1 W	81	26.6	175	S 5 E		
9920.0	8.00	6.8	351	N 9 W	78	26.8	175	S 5 E		
9922.0	8.00	6.2	348	N 12 W	100	26.9	175	S 5 E		
9924.0	8.00	6.6	348	N 12 W	100	26.9	175	S 5 E		
9926.0	8.00	11.5	220	S 40 W	63	27.0	175	S 5 E		
9928.0	8.00	9.9	352	N 8 W	100	27.0	175	S 5 E		
9930.0	8.00	1.8	115	S 65 E	60	27.1	175	S 5 E		
9932.0	8.00	10.3	202	S 22 W	82	27.2	175	S 5 E		
9934.0	8.00	1.5	88	N 88 E	71	27.1	175	S 5 E		
9936.0	8.00	2.7	60	N 60 E	100	27.1	175	S 5 E		
9938.0	8.00	4.6	102	S 78 E	100	27.2	175	S 5 E		

RIO BRAVO
20-2 RU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

UTAH

DEPTH	WL	**FORMATION DIP**				GRADE	***BOREHOLE***			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
9942.0	8.00	1.6	29	N 29 E	93	27.3	175	S	5 E	
9944.0	8.00	0.9	55	N 55 E	99	27.4	175	S	5 E	
9946.0	8.00	12.3	302	N 58 W	97	27.4	175	S	5 E	
9948.0	8.00	15.7	2	N 2 E	100	27.6	175	S	5 E	
9950.0	8.00	17.3	357	N 3 W	59	27.5	175	S	5 E	
9952.0	8.00	14.3	35	N 35 E	100	27.6	175	S	5 E	
9954.0	8.00	17.7	356	N 4 W	100	27.6	175	S	5 E	
9956.0	8.00	18.4	359	N 1 W	100	27.5	175	S	5 E	
9958.0	8.00	18.2	359	N 1 W	100	27.7	175	S	5 E	
9960.0	8.00	18.1	359	N 1 W	100	27.7	175	S	5 E	
9962.0	8.00	17.5	1	N 1 E	91	27.8	175	S	5 E	
9964.0	8.00	16.4	350	N 10 W	100	27.7	175	S	5 E	
9970.0	8.00	19.1	358	N 2 W	73	27.9	175	S	5 E	
9972.0	8.00	12.0	3	N 3 E	88	28.0	175	S	5 E	
9974.0	8.00	11.0	2	N 2 E	100	28.0	174	S	6 E	
9976.0	8.00	10.7	357	N 3 W	100	28.1	175	S	5 E	
9978.0	8.00	11.5	350	N 10 W	100	28.2	175	S	5 E	
9980.0	8.00	9.1	318	N 42 W	81	28.3	175	S	5 E	
9982.0	8.00	13.1	353	N 7 W	77	28.3	175	S	5 E	
9984.0	8.00	11.6	351	N 9 W	100	28.4	175	S	5 E	
9986.0	8.00	10.4	358	N 2 W	71	28.4	175	S	5 E	
9988.0	8.00	5.3	291	N 69 W	100	28.4	175	S	5 E	
9990.0	8.00	13.3	222	S 42 W	36	28.4	175	S	5 E	
9992.0	8.00	12.4	159	S 21 E	86	28.5	175	S	5 E	
9994.0	8.00	11.6	162	S 18 E	100	28.5	175	S	5 E	
9996.0	8.00	9.8	156	S 24 E	86	28.5	175	S	5 E	
9998.0	8.00	10.2	253	S 73 W	100	28.7	175	S	5 E	
10000.0	8.00	18.2	235	S 55 W	54	28.7	175	S	5 E	
10002.0	8.00	12.7	152	S 28 E	64	28.8	175	S	5 E	
10004.0	8.00	12.7	151	S 29 E	63	29.0	175	S	5 E	
10016.0	8.00	8.5	57	N 57 E	100	28.8	174	S	6 E	
10018.0	8.00	5.1	207	S 27 W	100	29.0	175	S	5 E	
10020.0	8.00	5.3	0	N 0 E	100	29.0	175	S	5 E	
10022.0	8.00	12.9	8	N 8 E	87	29.1	175	S	5 E	
10024.0	8.00	14.4	5	N 5 E	75	29.0	175	S	5 E	
10026.0	8.00	8.8	121	S 59 E	74	29.1	174	S	6 E	
10028.0	8.00	4.0	356	N 4 W	74	29.1	175	S	5 E	
10030.0	8.00	2.4	163	S 17 E	100	29.3	174	S	6 E	
10032.0	8.00	6.6	358	N 2 W	82	29.3	175	S	5 E	
10034.0	8.00	10.6	236	S 56 W	65	29.3	175	S	5 E	

RIO BRAVO
20-2 RU
ROOSEVELT FIELD
UINTAH
02-26-84

DIP348

UTAH

DEPTH	WL.	**FORMATION DIP**			GRADE	***BOREHOLE***		
		ANG	AZ	BEARING		DA	DAZ	BEARING
10042.0	8.00	11.3	10	N 10 E	66	29.6	175	S 5 E
10044.0	8.00	16.2	352	N 8 W	100	29.7	174	S 6 E
10046.0	8.00	13.3	23	N 23 E	86	29.7	174	S 6 E
10048.0	8.00	15.5	2	N 2 E	100	29.8	174	S 6 E
10050.0	8.00	15.5	0	N 0 E	100	29.9	174	S 6 E
10052.0	8.00	14.5	357	N 3 W	100	29.8	174	S 6 E
10054.0	8.00	7.3	182	S 2 W	50	29.8	174	S 6 E
10056.0	8.00	5.9	33	N 33 E	100	29.9	174	S 6 E
10058.0	8.00	5.5	17	N 17 E	100	29.9	174	S 6 E
10060.0	8.00	8.5	128	S 52 E	26	30.0	174	S 6 E
10062.0	8.00	17.7	97	S 83 E	21	29.9	175	S 5 E
10064.0	8.00	6.5	0	N 0 E	100	30.0	174	S 6 E
10066.0	8.00	7.8	354	N 6 W	100	30.1	174	S 6 E
10068.0	8.00	9.2	358	N 2 W	100	30.0	174	S 6 E
10070.0	8.00	8.3	1	N 1 E	100	30.1	174	S 6 E
10072.0	8.00	7.3	88	N 88 E	100	30.2	174	S 6 E
10074.0	8.00	5.3	219	S 39 W	76	30.2	174	S 6 E
10076.0	8.00	3.8	141	S 39 E	100	30.2	174	S 6 E
10078.0	8.00	0.9	180	S 0 E	100	30.3	174	S 6 E
10080.0	8.00	1.7	150	S 30 E	100	30.4	174	S 6 E
10082.0	8.00	15.4	96	S 84 E	52	30.4	174	S 6 E
10084.0	8.00	6.1	353	N 7 W	96	30.5	174	S 6 E
10086.0	8.00	12.4	313	N 47 W	100	30.6	174	S 6 E
10088.0	8.00	12.5	314	N 46 W	71	30.6	174	S 6 E
10090.0	8.00	12.1	320	N 40 W	64	30.6	174	S 6 E
10092.0	8.00	9.4	323	N 37 W	100	30.7	174	S 6 E
10094.0	8.00	10.5	308	N 52 W	84	30.8	174	S 6 E
10096.0	8.00	10.9	277	N 83 W	100	30.7	174	S 6 E
10098.0	8.00	9.1	274	N 86 W	100	30.8	174	S 6 E
10100.0	8.00	8.6	275	N 85 W	100	30.9	174	S 6 E
10102.0	8.00	9.9	282	N 78 W	64	30.9	174	S 6 E
10134.0	8.00	3.0	194	S 14 W	63	31.7	174	S 6 E
10142.0	8.00	3.1	129	S 51 E	100	31.9	174	S 6 E
10144.0	8.00	8.1	70	N 70 E	91	31.9	174	S 6 E
10146.0	8.00	13.3	31	N 31 E	82	31.9	173	S 7 E
10148.0	8.00	13.8	15	N 15 E	73	32.0	173	S 7 E
10150.0	8.00	15.1	33	N 33 E	79	32.2	173	S 7 E
10152.0	8.00	15.2	33	N 33 E	79	32.2	173	S 7 E
10156.0	8.00	9.3	64	N 64 E	53	32.2	173	S 7 E
10182.0	8.00	11.1	314	N 46 W	100	32.8	173	S 7 E

RIO BRAVO

DIP348

20-2 RU

ROOSEVELT FIELD

UINTAH

UTAH

02-26-84

DEPTH	WL.	**FORMATION DIP**			GRADE	***BOREHOLE***		
		ANG	AZ	BEARING		DA	DAZ	BEARING
10184.0	8.00	5.0	279	N 81 W	57	32.8	173	S 7 E
10208.0	8.00	3.9	127	S 53 E	100	33.1	173	S 7 E
10210.0	8.00	4.6	240	S 60 W	100	33.3	173	S 7 E
10242.0	8.00	10.0	18	N 18 E	100	33.8	173	S 7 E
10244.0	8.00	9.0	261	S 81 W	64	33.8	173	S 7 E
10246.0	8.00	9.0	314	N 46 W	100	33.8	173	S 7 E
10248.0	8.00	6.8	276	N 84 W	96	33.8	173	S 7 E
10252.0	8.00	21.4	1	N 1 E	10	33.7	173	S 7 E
10254.0	8.00	21.2	4	N 4 E	44	33.9	173	S 7 E
10262.0	8.00	20.1	4	N 4 E	60	33.9	173	S 7 E
10286.0	8.00	36.9	329	N 31 W	50	34.0	172	S 8 E
10288.0	8.00	34.0	331	N 29 W	50	33.9	173	S 7 E
10290.0	8.00	35.4	331	N 29 W	69	34.0	173	S 7 E
10292.0	8.00	34.7	324	N 36 W	52	34.1	173	S 7 E
10296.0	8.00	24.7	59	N 59 E	17	34.1	173	S 7 E
10340.0	8.00	11.3	308	N 52 W	52	34.9	172	S 8 E
10368.0	8.00	10.0	310	N 50 W	47	35.4	172	S 8 E
10370.0	8.00	7.9	262	S 82 W	77	35.3	173	S 7 E
10372.0	8.00	13.6	62	N 62 E	60	35.5	173	S 7 E
10374.0	8.00	7.3	145	S 35 E	35	35.5	172	S 8 E
10392.0	8.00	15.1	24	N 24 E	15	35.8	173	S 7 E
10398.0	8.00	12.6	261	S 81 W	18	35.8	172	S 8 E
10404.0	8.00	6.6	348	N 12 W	53	35.9	172	S 8 E
10406.0	8.00	12.5	232	S 52 W	87	35.9	172	S 8 E
10408.0	8.00	10.2	226	S 46 W	91	36.0	172	S 8 E
10410.0	8.00	13.5	230	S 50 W	100	36.1	172	S 8 E
10412.0	8.00	12.9	238	S 58 W	64	36.1	172	S 8 E
10416.0	8.00	10.0	335	N 25 W	69	36.0	172	S 8 E
10418.0	8.00	2.9	65	N 65 E	61	36.2	172	S 8 E
10420.0	8.00	11.4	7	N 7 E	100	36.3	172	S 8 E
10422.0	8.00	6.5	218	S 38 W	82	36.4	172	S 8 E
10424.0	8.00	5.1	89	N 89 E	71	36.4	172	S 8 E
10436.0	8.00	7.9	84	N 84 E	29	36.6	172	S 8 E
10442.0	8.00	11.7	343	N 17 W	71	36.8	172	S 8 E
10448.0	8.00	10.5	41	N 41 E	31	37.1	172	S 8 E
10452.0	8.00	7.8	309	N 51 W	11	37.1	172	S 8 E
10466.0	8.00	4.9	180	S 0 E	35	37.5	171	S 9 E
10468.0	8.00	9.1	124	S 56 E	71	37.5	171	S 9 E
10470.0	8.00	6.3	235	S 55 W	100	37.5	172	S 8 E
10472.0	8.00	3.6	111	S 69 E	78	37.5	172	S 8 E

RIO BRAVO

DIP348

20-2 RU

ROOSEVELT FIELD

UINTAH

UTAH

02-26-84

DEPTH	WL.	**FORMATION DIP**				GRADE	***BOREHOLE***			
		ANG	AZ	BEARING	DA		DAZ	BEARING		
10474.0	8.00	5.5	228	S 48 W	89	37.6	171	S 9 E		
10476.0	8.00	17.3	75	N 75 E	59	37.6	172	S 8 E		
10490.0	8.00	9.3	263	S 83 W	38	37.9	171	S 9 E		
10492.0	8.00	15.4	132	S 48 E	20	37.9	171	S 9 E		
10500.0	8.00	15.9	294	N 66 W	35	38.2	171	S 9 E		
10502.0	8.00	12.1	285	N 75 W	66	38.2	171	S 9 E		
10510.0	8.00	13.3	93	S 87 E	18	38.4	171	S 9 E		
10514.0	8.00	14.9	4	N 4 E	65	38.5	171	S 9 E		
10520.0	8.00	11.0	102	S 78 E	15	38.6	171	S 9 E		
10524.0	8.00	6.6	344	N 16 W	36	38.7	171	S 9 E		
10526.0	8.00	27.1	53	N 53 E	36	38.7	171	S 9 E		
10528.0	8.00	26.5	55	N 55 E	44	38.7	171	S 9 E		
10530.0	8.00	15.9	43	N 43 E	62	38.9	171	S 9 E		
10532.0	8.00	5.7	231	S 51 W	95	38.8	171	S 9 E		
10534.0	8.00	14.0	250	S 70 W	74	39.0	170	S 10 E		
10536.0	8.00	16.9	342	N 18 W	63	39.0	171	S 9 E		
10556.0	8.00	18.8	344	N 16 W	57	39.4	170	S 10 E		
10574.0	8.00	11.6	323	N 37 W	31	39.7	170	S 10 E		
10594.0	8.00	9.9	256	S 76 W	13	40.1	170	S 10 E		
10596.0	8.00	4.7	229	S 49 W	13	40.2	170	S 10 E		
10598.0	8.00	5.5	233	S 53 W	13	40.2	169	S 11 E		
10614.0	8.00	3.2	312	N 48 W	98	40.6	169	S 11 E		
10616.0	8.00	3.9	296	N 64 W	42	40.6	169	S 11 E		
10622.0	8.00	7.6	174	S 6 E	63	40.7	169	S 11 E		
10626.0	8.00	14.5	348	N 12 W	90	40.8	169	S 11 E		
10634.0	8.00	13.9	305	N 55 W	100	41.0	169	S 11 E		
10636.0	8.00	5.2	192	S 12 W	99	40.9	169	S 11 E		

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL & GAS CONSERVATION
 4241 STATE OFFICE BUILDING
 SALT LAKE CITY, UTAH 84114
 533-5771

State Lease No. _____
 Federal Lease No. _____
 Indian Lease No. 1-109-IND-5247
 Fee & Pat. _____

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE UTAH COUNTY UINTAH FIELD/LEASE UTAH

The following is a correct report of operations and production (including drilling and producing wells) for the month of:
APRIL, 1984

Agent's Address 5500 MING AVE.
BAKERSFIELD, CA 93309
 Phone No. (805) 834-0462

Company RIO BRAVO OIL CO.
 Signed *Mike A. Water*
 Title AREA PRODUCTION ENGINEER

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	API NUMBER/REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
17	1S	1E	20-2	30	819	34.0	1929	0	471	4304731422 TESTING MAY 21 1984

RECEIVED

MAY 21 1984

DIVISION OF OIL
GAS & MINING

GAS: (MCF)
 Sold NONE
 Flared/Vented _____
 Used On/Off Lease 1929

OIL or CONDENSATE: (To be reported in Barrels)
 On hand at beginning of month 0
 Produced during month 819
 Sold during month 410.19
 Unavoidably lost 0
 Reason: _____
 On hand at end of month 409

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**

Note: The API number must be listed on each well.

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL & GAS CONSERVATION
 4241 STATE OFFICE BUILDING
 SALT LAKE CITY, UTAH 84114
 533-5771

State Lease No. _____
 Federal Lease No. _____
 Indian Lease No. 1-109-IND-5247
 Fee & Pat. _____

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE UTAH COUNTY UINTAH FIELD/LEASE ROOSEVELT FEDERAL UNIT

The following is a correct report of operations and production (including drilling and producing wells) for the month of:
MAY, 1984

Agent's Address 5500 MING AVE. Company RIO BRAVO OIL CO.
BAKERSFIELD, CA 93309 Signed [Signature]
 Phone No. (805) 834-0462 Title AREA PRODUCTION ENGINEER

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	API NUMBER/REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SW SE 17	1S	1E	20	2 22	361	33.8	370	0	1227	4304731422 TESTING JUN - 6 1984

GAS: (MCF)
 Sold NONE
 Flared/Vented NONE
 Used On/Off Lease 370

OIL or CONDENSATE: (To be reported in Barrels)
 On hand at beginning of month 409
 Produced during month 361
 Sold during month 424.51
 Unavoidably lost 0
 Reason: _____
 On hand at end of month 345

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**

Note: The API number must be listed on each well.

Santa Fe Energy Company



Central Division-Rocky Mountain District
Security Life Building
Suite 2600
Denver, Colorado 80202-4330
303/825-5101

RECEIVED
JAN 07 1985

January 3, 1984

State of Utah
Attn: Claudia L. Jones
Well Records Specialist
4241 State Office Bldg.
Salt Lake City, UT 84114

DIVISION OF
OIL, GAS & MINING

Dear Ms. Jones:

Attached please find a second copy of the completion notice for the Roosevelt Unit 20-2 along with all attachments (except copy of electric logs) which was sent to your office on August 28, 1984 according to our records.

The well was in ownership transition at the time of completion and while the operator was Rio Bravo, the completion was signed by an engineer of Santa Fe Energy. A copy of everything was also sent to the Bureau of Land Management, Vernal.

If you need more information, please contact me at the above address.

Sincerely,

SANTA FE ENERGY COMPANY

Janetta Lindner
Engineering Technician

encl.



OIL & GAS CONSERVATION COMMISSION

I-109-IND-5247

14

5. LEASE DESIGNATION AND SERIAL NO.

Surface location Fee

Bottom half Tribal

6. UNIT AGREEMENT NAME

Lite & Ouray

7. FARM OR LEASE NAME

Roosevelt

8. WELL NO.

RU 20-2

10. FIELD AND POOL, OR WILDCAT

Bluebell Field

11. SEC., T. R., M., OR BLOCK AND SURVEY OR AREA

Sec. 17 TIS RIE USM

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER

2. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. REEV. OTHER

2. NAME OF OPERATOR: Rio Bravo Oil Co.

3. ADDRESS OF OPERATOR: Bravo Oil Co., 30th Flr. - 201 Mission St., San Francisco, CA 94105

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements):
At surface 2457' FWL 242' FSL Sec 17 TIS RIE USM
At top prod. interval reported below SE SW

At total depth 887'
1980' FWL 600' FNL TRIBAL
Sec 20, TIS RIE USM NE NW

14. PERMIT NO. 43-047-314221
DATE ISSUED 12-16-83

15. DATE SPUDDED 12-30-83
16. DATE T.D. REACHED 2-25-84
17. DATE COMPL. (Ready to prod.) 6-1-84
18. ELEVATIONS (DF, RSB, RT, GR, ETC.) GR 5479'
19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 10,690' MD
21. PLUG, BACK T.D., MD & TVD 10638' MD
22. IF MULTIPLE COMPL. HOW MANY?
23. INTERVALS DRILLED BY
24. ROTARY TOOLS X
25. CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD):
Green River 10,114' - 9981' MD Green River 9,746' - 9595'
LAC ANALYSIS 9,934' - 9780' MD

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL, Sonic, Gamma, Density - Neutron, Dip
SPECTRAL LOG
BHC ACOUSTIC SPAC.
BHC ACOUSTIC
DIELECTRIC LOG

25. WAS DIRECTIONAL SURVEY MADE Yes

27. WAS WELL CORED Yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	94# H40	80'	26"		
10 3/4"	40.5 H40STC	2500'	14 3/4"	556. bbx slurry	none
7"	23-26#	10,400'	9 7/8"	310 sx 50/50 poz	none

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	9675'	9547'

31. PERFORATION RECORD (Interval, size and number)

10,114'-9981'	124-0.44" holes
9,934'-9780'	84-0.44" holes
9,746'-9595'	128-0.44" holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
10,114'-9981'	12,500 gal 15% HCl
9,934'-9780'	15,000 gal 15% HCl
9,746'-9595'	

33. PRODUCTION

DATE FIRST PRODUCTION 6-1-84
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping
WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
5-24-84	24			36.5	18.6	148.4	.509

FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
			31 BOPD			

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Some sold - rest used for fuel

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED William F. Parks TITLE Dist Production Engineer DATE 8-17-84
William F. Parks

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 23. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

27. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

28.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Green River.	5680'	180'

McCall Consulting Inc.

8300 KERN CANYON ROAD, SPACE 81
BAKERSFIELD, CALIFORNIA 93306

PHONE 366-9102

SUBSURFACE SURVEY

REPORT

McCall Consulting Inc.

SURVEY DATA SHEET

SHEET NO. 1

JOB NO. _____

COMPANY RIO BRAVO OIL COMPANY

ADDRESS 5500 MING AVE., SUITE 135

WELL RU 20-2

FIELD ROOSEVELT

COUNTY UNITAH

STATE UTAH

MEASURED DEPTH	COURSE LENGTH	TERMINAL DRIFT ANGLE	TERMINAL DIRECTION OF DEVIATION	AVERAGE DRIFT ANGLE	VERTICAL DEPTH		COURSE DEVIATION	AVERAGE DIRECTION OF DEVIATION	COURSE COORDINATES				TOTAL COORDINATES				SECTION	
					COURSE	TOTAL			NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST		
					ASSUMED VERTICAL													
					TO 2472'													
58		0° 25	S -88- W			2658.00								0.01			0.41	
39		0° 25	S -32- W			2839.99								0.80			1.77	
22		0° 25	S -30- W			3021.98								2.86			3.01	
04		0°	---			3203.97								3.89			3.6	
87		0° 25	S -67- W			3386.97								4.36			4.71	
72		0° 25	S -33- E			3571.95								6.67			5.41	
56		0° 25	S -02- E			3755.94								8.97			4.69	
39		0° 25	S -06- E			3938.92								11.36			4.52	
53		1°	S -05- W			4152.90								14.63			4.49	
35		1°	S -13- W			4334.87								17.76			4.99	
14		1°	S -09- E			4513.84								20.89			5.10	
07		1° 50	S -02- E			4706.80								25.08			4.70	
85		1° 25	S -20- E			4884.74								29.27			3.88	
52		1° 50	S -05- W			5251.64								38.00			2.7	
42		1°	S -17- E			5441.59								42.12			2.30	
21		1° 50	S -31- E			5620.55								45.69			0.71	
90		1° 50	S -20- E			5889.46								52.05			2.32	
81		1° 25	S -02- W			6080.38								57.40			3.17	
20		1° 50	S -32- W			6119.37								58.45			2.85	
25		1° 25	S -11- W			6424.28								65.26			0.16	
48		1°	S -24- E			6747.22								71.56			0.88	
37		1°	S -16- E			6836.20								73.02			1.41	
52		1°	S -07- E			7051.17								76.70			2.16	

McCall Consulting Inc.

SURVEY DATA SHEET

SHEET NO. 2

JOB NO. _____

COMPANY RIO BRAVO OIL COMPANY

ADDRESS 5500 MING AVE., SUITE 135

WELL RU 20-2

FIELD ROOSEVELT

COUNTY UNITAH

STATE UTAH

MEASURED DEPTH	COURSE LENGTH	TERMINAL DRIFT ANGLE	TERMINAL DIRECTION OF DEVIATION	AVERAGE DRIFT ANGLE	VERTICAL DEPTH		COURSE DEVIATION	AVERAGE DIRECTION OF DEVIATION	COURSE COORDINATES				TOTAL COORDINATES			
					COURSE	TOTAL			NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST
44		1° 50	S -25- E			7243.12							80.73			3.32
14		2°	S -30- E			7413.05							85.33			5.71
08 ✓		2°	S -45- W			7606.93							92.04			4.83
72		4°	S -40- W			7670.84							94.51			2.57
04		4° 25	S -49- W			7702.75							96.25			0.57
57		5° 25	S -40- W			7755.52							99.71			2.54
20		7°	S -41- W			7818.13							105.03			7.09
79		7° 50	S -42- W			7876.66							110.61			12.02
03		8° 25	S -41- W			7999.49							123.33			23.28
27 ✓		9° 25	S -37- W			8023.21							126.17			25.58
97		10°	S -35- W			8092.23							135.64			32.46
91		11°	S -32- W			8184.65							149.92			41.91
85		12° 25	S -25- W			8276.73							166.57			50.95
81		14°	S -21- W			8370.22							186.64			59.47
76		16°	S -17- W			8461.98							209.89			67.47
94		16° 25	S -17- W			8575.19							241.70			77.20
68		17°	S -15- W			8646.01							262.35			83.12
92		17° 25	S -12- W			8764.35							298.35			91.76
52		18°	S -10- W			8916.63							346.56			101.13
09 ✓		18° 15	S -07- W			9065.88							394.74			108.33
60		18° 25	S -05- W			9209.12							442.26			113.33
20		19° 25	S -06- W			9360.18							494.77			118.38
72 ✓		21°	S -03- W			9502.67							547.53			122.53
59		24°	S -01- W			9675.43							619.05			125.03

McCall Consulting Inc.

SURVEY DATA SHEET

SHEET NO. 3

JOB NO. _____

COMPANY RIO BRAVO OIL COMPANY

ADDRESS 5500 MING AVE., SUITE 135

WELL RU 20-2

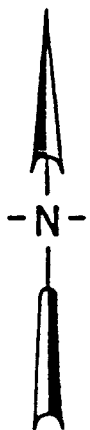
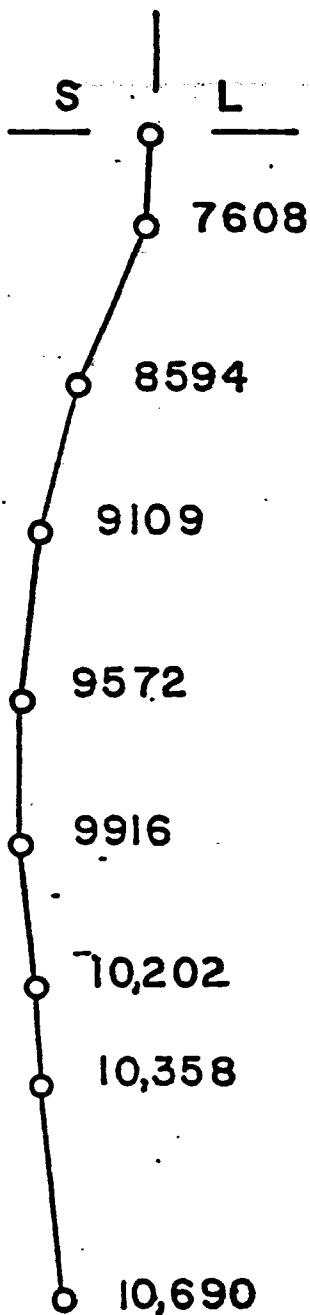
FIELD ROOSEVELT

COUNTY UNITAH

STATE UTAH

MEASURED DEPTH	COURSE LENGTH	TERMINAL DRIFT ANGLE	TERMINAL DIRECTION OF DEVIATION	AVERAGE DRIFT ANGLE	VERTICAL DEPTH		COURSE DEVIATION	AVERAGE DIRECTION OF DEVIATION	COURSE COORDINATES				TOTAL COORDINATES				SEC.
					COURSE	TOTAL			NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST	
16 ✓		27° 50'	S -01- E			9816.84								687.25		125.01	
24		31° 50'	S -02- E			9954.36								765.03		122.99	
02 ✓		34°	S -04- E			10062.81								834.18		119.37	
58		35° 50'	S -05- E			10190.19								922.83		112.39	
90 ✓		42°	S -09- E			10449.11								1129.08		87.4	
							CLOSURE										
							1132.43'										
							S 4° 24' W										

1" = 200



— CLOSURE —

1132.43' S-4° 24'-W

10,690 MD

10,449 VD

1129 S

87 W



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

April 18, 1985

Santa Fe Energy Company for
Rio Bravo Oil Company
7200 I-40 West
Amarillo, Texas 79106

Attention: Brenda Littau

Gentlemen:

Re: Roosevelt Unit 20-2 T1S R1E SEC 20 API# 43-047-31422

Brenda, thank you for sending the MONTHLY OIL AND GAS PRODUCTION and DISPOSITION REPORTS for the months of April, May, and September 1984 through February 1985.

As you will notice, we are missing the June, July, and August reports for 1984. Will you please send them to us as soon as possible so the information on this well will be up-to-date.

Your help will be greatly appreciated.

Sincerely,

Vicky Carney
Office Specialist, Production

cc: Dianne R. Nielson
Ronald J. Firth
Norman C. Stout
File



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
UTAH STATE OFFICE
324 SOUTH STATE, SUITE 301
SALT LAKE CITY, UTAH 84111-2303

IN REPLY REFER TO

3180
(U-922)

RECEIVED

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

JUL 29 1985

Working Interest Owners

DIVISION OF OIL
GAS & MINING

Re: Roosevelt Unit
Uintah and Duchesne Counties

Gentlemen:

On March 15, 1985, the Bureau of Land Management received notification via certified mail that Bravo Oil Company, doing business in Utah as Rio Bravo Oil Company, resigned as Operator of the Roosevelt Unit in accordance with Section 5 of the unit agreement. The notice of intent to resign will become effective 6 months after date of receipt assuming all parties have been properly notified. As provided in Section 5 of the Roosevelt Unit Agreement, it is stated that "until a successor unit operator is selected and approved, as hereinafter provided, the Working Interests Owners shall be jointly responsible for the performance of the duties of Unit Operator and shall not later than 30 days before such resignation becomes effective, appoint a common agent to represent them in any action to be taken hereunder." As such, a common agent is to be selected by August 15, 1985, who will represent the Working Interest Owners in unit matters until a successor unit operator is chosen in accordance with Section 6 of the unit agreement.

If you need further information, do not hesitate to call this office.

R. A. Henricks
Acting Chief,
Branch of Fluid Minerals

bcc: Ute Tribe
BIA
DM/Vernal
State O&G ✓
File -Roosevelt Unit

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY **081815**

2
14

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 Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
SANTA FE ENERGY COMPANY

3. ADDRESS OF OPERATOR
Denver,
2600 Security Life Bldg/Colo 80202

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: ~~2640' FSL & 1100' FWL~~ *242 FSL 2457 FWL Sec 17*
AT TOP PROD. INTERVAL: *887 FNL 2370 FWL*
AT TOTAL DEPTH: *10,638' MD (Green River) 20*

5. LEASE
I-109-IND-5247

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Lite & Ouray

7. UNIT AGREEMENT NAME
Roosevelt

8. FARM OR LEASE NAME
Roosevelt Unit

9. WELL NO.
20-2

10. FIELD OR WILDCAT NAME
Bluebell Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
NE/NW Sec 20 T1S-R1E

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

14. API NO.
43-047-3142

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5479' GL

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

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <u>Recompletion</u>	<u>XX</u> ✓

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

Please see attached sheet for details of workover.

RECEIVED
AUG 13 1986

DIVISION OF
OIL, GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED John S. McCatharn TITLE Sr. Drlg. Eng. DATE August 11, 1986

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

SANTA FE ENERGY COMPANY
2600 Security Life Bldg
Denver, Colorado 80202

RECOMPLETION
ROOSEVELT UNIT #20-2

- 7/16/86: Circ 3 days to equalize. Ran carbon oxygen logs 6500-9575'.
- 7/22/86: CIBP set @ 9575' and 2 sx cement on top of CIBP were placed as requested by Jerry Kenczka of the BLM. Mr. Kenczka waived the necessity to file an intent to move to a new zone in the Green River formation. Perforations below the bridge plug are all in the Green River formation from 10,114'-9595'.
- 7/25/86: Perforate 9150-54', 9134-39', 8966-74', 8951-60', 8936-48', 8826-31', 8788-92', 101 holes (47') Green River frm.
- 7/26/86: Acidize w/15,000 gals 50% HCL acid w/additives & nitrogen. Max rate nitrogen & fluid 13 BPM @ 6200#.
- 7/28/86: Perforate 8564-66', 7719-28', 7671-81', 45 holes (21') Green River frm.
- 7/29/86: Acidize 8564-66' w/500 gals 15% HCL w/additives. Max rate: 5 BPM @ 3300#.
- 7/30/86: Acidize 7719-28' w/1000 gals 15% HCL w/additives. Max rate: 1.4 BPM @ 4500#.
- 7/31/86: Acidize 7671-81' w/1000 gals 15% HCL w/additives + inhibitor. Max rate: 8.8 BPM @ 4800#.
- 8/01/86: Install dual hanger tbg spool for 273 jts 2-1/16" & 2-7/8" tbg. End of tbg @ 9147'.
- 8-06-86: Pumping @ 98 SPM, 1500#. Recovering load water w/all perforations open.
- 8-10-86: 2300# pressure, 80 SPM, 8 BO, 23 BW, trace gas. Venting gas to pit.

March 17, 1988

Gavilan Petroleum, Inc.
4885 South 900 East, Suite 305
Salt Lake City, Utah 84117

Re: Successor of Operator
Roosevelt Unit
Green River Participating Area
Uintah County, Utah

Gentlemen:

We received an indenture dated December 9, 1987, whereby Walker Energy Group resigned as Operator of the Green River Participating Area and Gavilan Petroleum, Inc. was designated as Operator of the Green River Participating Area for the Roosevelt Unit Agreement, Uintah County, Utah.

This indenture was executed by all required parties. The signatory parties have complied with Section 6 of the unit agreement. The instrument is hereby accepted effective as of March 16, 1988. Please advise all interested parties of the change in unit operator.

Sincerely,

Orig. Sgd: J.A. Fouts

for Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

bcc: District Manager - Vernal (w/enclosure)
Division of Oil, Gas and Mining
Branch of Lands and Minerals Operations (U-942)
File - Roosevelt Unit (w/enclosure)
Accounts - Denver
Agr. Sec. Chron

U-922:TAThompson:tt:03-17-88
0013U

RECORDED
MAR 18 1988

DIVISION OF
OIL, GAS & MINING



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
VERNAL DISTRICT OFFICE
170 SOUTH 500 EAST
VERNAL, UTAH 84078



IN REPLY REFER TO:

3160

UT03-178

July 19, 1988

RECEIVED
AUG 10 1988

**DIVISION OF
OIL, GAS & MINING**

Caloco Energy, Inc.
P. O. Box 181505
Dallas, TX 75218

Re: Operations Within Roosevelt Unit
Uintah County, Utah

Gentlemen:

It is the understanding of this office that Caloco Energy considers themselves to be the new operator for approximately seven wells within the Roosevelt Unit Green River Participating Area.

Please be advised that the following problems exist because of this action since the Roosevelt Unit is a Federally supervised unit:

1. Any action requiring approval must be filed with this office or our Bureau of Land Management State Office depending upon the action and approved prior to initiating any work or considering a change in operator effective. This viewpoint is consistent with the Federal regulations, Notices to Lessee's (NTL'S), Onshore Orders, policies, etc. that govern the management of Federally supervised lands.
2. As per the Unit Agreement, the Unit Operator is the only recognized operator within the participating area(s) of a unit, unless the unit agreement allows for a sub-operator which must first be approved by our State Office.

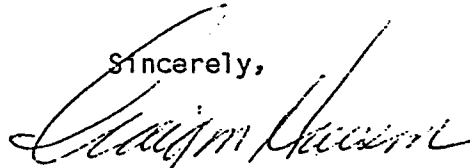
Therefore, regardless of whether Caloco Energy, or any other operator other than the Unit Operator, claims to be operating unit wells within a Federally supervised unit, the Unit Operator is the party held liable and responsible for all operations within a participating area boundary. Only for those wells not considered to be unit wells could this office recognize another operator other than the Unit Operator. Typically, this situation involves wells that have been drilled outside of a participating area boundary and for which a nonpaying unit well determination has been made. Thus, this office cannot recognize Caloco Energy as the operator for those wells in

which you consider yourselves to be the operator for within the Green River Participating Area of the Roosevelt Unit.

Should the Unit Operator wish to enter into an agreement with another party to operate wells within a participating area, this office does not become involved in such agreements so long as all of the parties involved understand that it is the Unit Operator that this office holds liable and responsible for all operations within the Unit. This includes all of the necessary paperwork requirements, proper well signs, seal requirements, penalty assessments, etc. Thus, if Caloco Energy were to enter into such an agreement with the Unit Operator for the Roosevelt Unit, this office would not need to approve such an action, but it must be understood that this office would not recognize or act upon any request submitted by Caloco Energy. As stated earlier, all paperwork requirements must be submitted by the Unit Operator.

If you have any questions regarding any of the above, please contact Jerry Kenczka of this office.

Sincerely,



Craig M. Hansen
ADM for Minerals

cc: U-922
BIA
Gavilan
DOGM

VLC,

Re: Roosevelt Unit 20-2, 43-047-31427

I have neared completion of the operator change from Rio Bravo on the above well, & have also confirmed production for most of the missing periods.

For your info, ~~Orbis~~ Orbis was the operator in 1989. Caloco bought them out in 1/90. The companies will be submitting the appropriate paperwork to Lisa.

Re production & disposition, Joe Wallen @ Caloco confirmed this morning that the well has not produced since they have owned it. Thus, please prepare reports for this well from 1/90 - 3/91 based on this telephone conversation.

I hope to have info re '89 production soon.

Steve S.
4/17/91

Orbis

3/20/91 @ 10:20AM Call to Fred Lieber (Orbis Pres.) @ 212-873-2596 which is # Tami had previously used. No answer.

3/20/91 @ 10:25AM Call to NYC Directory Assistance re Fred J. Lieber on West End Ave. Phone Co. provided Fred & Debra Lieber on West End Ave. 212-362-1373 & 212-873-2596.

3/20/91 @ 10:26AM Call to Fred Lieber @ 212-362-1373. No answer.

3/22/91 @ 9:08AM. Telecon with Debra Lieber, President of Orbis, 212-362-1373.

Fred, her husband, is VP of Orbis. He is most familiar with the status of their ownership. He is out. She tried to reach him on another line. Provided Debra w/ info: ~~Orbis~~ Bravo Oil (now Santa Fe) reported a transfer of operator on Roosevelt Unit 20-2 in 1990 which was effective in 1/89, but we haven't heard from Orbis, the new operator. Debra said she wasn't familiar with this well number, but Fred should be. She said she trusts him, he's her husband! When she reaches Fred, she will have him call me. SLS

4/11/91 @ 3:50PM Telecon to Debra Lieber, Orbis, @ 212-362-1373 re no reply on Roosevelt 20-2. She said Joe Wallen @ Caloco was to have called us re this well. The Roosevelt 20-2 well is owned by Orbis Utah, which is now owned by Caloco (Joe Wallen in Dallas). Liebers sold it (co.) to Caloco. SLS to call Caloco.

4/12/91 @ 9:00AM Telecon to Joe Wallen @ Caloco, 214-271-4172. Joe confirmed that Caloco bought Orbis Ex-Im Utah in 2/1990. No problem since then. He will prepare a summary & send to us re this operator change on the Ross 20-2.

oper & filed in file 6771. ✓ } Also, re Romeo 14-8 well, Mr Wallen stated that an operator change from Spivak to Caloco is effective 4/1/91 on this well. This has been filed with the feeds, he will send a copy to us. Will do. by next week.

5/16/91 @ 8:52 Left msg w/ Joe Wallen @ Caloco re follow-up to 4/12 discussion.

Santa Fe Pacific Exploration Company
Managing General Partner

November 9, 1989

*We have never been
able to contact anyone
from Orbis SLS is
still trying DTS
3-20-91*

Sam Oil Inc.
P. O. Box 1030
Roosevelt, Utah 84066

Attention: Steven A. Malnar
President

RE: Roosevelt Unit
Uintah County, Utah

Dear Mr. Malnar:

Mr. Charles M. Parker of Rio Bravo Oil Company has provided your correspondence to that firm with his letter of November 6, 1989.

Bravo Oil Company sold all of its right, title and interest in the Roosevelt Unit to Orbis Ex-Im Utah, Inc., 150 West End Avenue, Suite 4A, New York, New York 10023, effective January 1, 1989 at 7:00 a.m.. According to a copy of the sealed bid offer letter on the letterhead of Clements, Allen & Bufkin, Attorneys and Counselors, 200 Providence Tower, East, L.B. 2, 5001 Spring Valley Road, Dallas, Texas 75244-3910, (214)991-2600, Fred J. Lieber was the president for Orbis and Jerry W. Warren was the attorney-in-fact for Mr. Lieber. The law firm's File No. is 7006-20.

Santa Fe Energy Company, Agent for Bravo Oil Company, transferred all files pertaining to the property that was sold to Orbis and therefore cannot be of further assistance with your concerns.

Our appreciation to Mr. Parker is expressed by a copy of this letter.

Very truly yours,

Carl F. Bridges

Carl F. Bridges
Manager, Division Order Administration

CFB/lsc

cc: Rio Bravo Oil Company
2000 Bering Drive, Suite 500
Houston, Texas 77057
Attn: Mr. Charles M. Parker
Vice President-Land

*I gave Freda this
copy so she can write
her letter of April 5, 1990,*

Orbis

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3/20/91 @ 10:25AM Call to NYC Directory Assistance re Fred Lieber on West End Ave. Phone Co. provided Fred & Debra Lieber on West End Ave. 212-362-1373 & 212-873-2596.

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5/16/91 @ 8:52 Left msg w/ Joe Wallen @ Caloco re follow-up to 4/12 discussion.



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

March 21, 1990

CERTIFIED RETURN RECEIPT REQUESTED
P 879 596 726

Ms. Brenda Littau
Rio Bravo Oil Company
7200 I-40 W.
1 Security Park
Amarillo, Texas 79106

N 9510

Dear Ms. Littau:

Re: Late Oil and Gas Production/Disposition Reports

This is to remind you of your responsibility to submit monthly oil and gas production and disposition reports to the Division of Oil, Gas and Mining in a timely manner. Rules R615-8-11 and R615-8-12 of the Oil and Gas Conservation General Rules state that the Monthly Oil and Gas Production Report and the Monthly Oil and Gas Disposition Report shall be submitted by the operator before the fifteenth day of the second calendar month following the month of production. A report should be filed even when all wells are shut in for the month. As of this date, our records indicate that the division has not received reports from Rio Bravo Oil Company for the months of July 1989 through January 1990.

It is requested that the delinquent oil and gas production and disposition reports be prepared and submitted to the division no later than April 6, 1990. A copy of each report form has been enclosed for your use in the event the original report forms which were sent to you have been misplaced.



Santa Fe Energy Resources, Inc.

April 5, 1990

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Post-It™ brand fax transmittal memo 7671		# of pages > 4
To	S. SCHNEIDER	
From	CARL BRIDGES	
Co.	STATE OF UTAH	Co. SANTA FE
Dept.	DIV. O & G MINING	Phone # 713/268-5561
Fax #	801/359-3940	713/268-5584

Attention: Ms. Vicky Carney

Re: Bravo Oil Company
Roosevelt Unit 20-2
Uintah County, Utah

Gentlemen:

In response to your letter dated March 21, 1990, Bravo Oil Company sold all of its right, title and interest in the Roosevelt Unit to Orbis Ex-Im Utah, Inc., 150 West End Avenue, Suite 4A, New York, New York 10023, effective January 1, 1989 at 7:00 a.m.

Enclosed is a copy of the November 9, 1989 letter we discussed by phone today which reiterates the sale information.

Please advise if you need further information to remove Bravo Oil Company from your records.

Sincerely,

Freda Jackson
Supervisor
Oil Revenue & Cash Receipts

FJ/ds

Enclosure

cc: Carl Bridges

ltrs-4 (11)

1818 South Voss, Suite 300
Houston, Texas 77087
713/783-2401
FAX 713/288-8670
FAX 713/288-8681

May 18, 1990

RJF

A certified letter (copy attached) was sent to the following operators on March 21, 1990, reminding them of their responsibility to submit production and disposition reports, and to advise them on which month's reports we are missing. Reports were to be submitted no later than April 6, 1990. This is a status report of these companies and their response to our letter.

FOSSIL FUELS INC. (N5600)

Operator's receipt of 3-21-90 letter verified.
No reports submitted as of this date.

PACIFIC ENERGY AND MINING (N7655)

Operator's receipt of 3-21-90 letter verified.
All wells have been sold to FIRST ZONE PRODUCTION.

5M, INC. (N0430)

Operator's receipt of 3-21-90 letter verified.
No reports submitted as of this date.

Operator has told division employees that they are no longer responsible for the wells as the BLM cancelled their leases.

3-30-90 Theresa Thompson of BLM told DTS that the leases were terminated due to 5M's failure to perform well tests to prove wells are non-productive. 5M is still the bonded operator and responsible for all physical work on the wells and all paperwork for three months after well pluggings. She advised that the division should continue to request reports from 5M as they are still responsible for the wells.

4-4-90 Theresa Thompson of BLM told SLS that the MMS has production reports on several of the wells up to May 1989, and a couple of the wells to November 1989. Zero production was reported on all wells up to that time. She said that federal regs require production to be reported until 3 months after plugging

4-11-90 RJF received letter from 5M w/copies of BLM lease termination letters. Letter said that if we need additional information or have further questions to contact their office.

RAPHAEL PUMPELLY, JR. (N2825)

Operator's receipt of 3-21-90 letter verified.
No reports submitted as of this date.

RIO BRAVO OIL COMPANY (N9510)

Operator's receipt of 3-21-90 letter verified.
No reports submitted as of this date.

4-9-90 Received letter from Santa Fe Energy (agent for Rio Bravo) regarding an operator change from Rio Bravo to Orbis. RJF has letter and is checking into it.



Santa Fe Energy Resources, Inc.

February 13, 1991

Oil and Gas Tax Returns
Utah State Tax Commission
160 East 300 South
Salt Lake City, Utah 84134-0550

Dear Sir or Madam:

We are in receipt of your request for Oil and Gas tax return reports for Bravo Oil Company.

This is to advise you that Bravo Oil Company (FEIN 74-0863420) merged into Santa Fe Energy Company (FEIN 75-0470841) on August 1, 1989. Santa Fe Energy Company merged into its parent, Santa Fe Natural Resources, Inc. (FEIN 36-2722169) on January 8, 1990. On January 11, 1990, Santa Fe Natural Resources, Inc. changed its name to Santa Fe Energy Resources, Inc.

Sincerely,

P. J. Litke
Director of Tax

PJL:SJ:mcb

BRAVO

1616 South Voss, Suite 500
Houston, Texas 77057
713/783-2401
FAX 713/268-5537

RECEIVED
FEB 27 1991

DIVISION OF
OIL, GAS & MINING

110830
119570

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File _____
(Location) Sec ___ Twp ___ Rng ___
(API No.) _____

Suspense
(Return Date) _____
(To - Initials) _____

Other
OPERATOR FILE _____
BOND FILE _____

1. Date of Phone Call: 3-6-91 Time: 1:00

2. DOGM Employee (name) L. ROMERO (Initiated Call
Talked to:
Name P. J. LITKE (Initiated Call - Phone No. (713) 783-2401
of (Company/Organization) SANTA FE ENERGY RESOURCES, INC.

3. Topic of Conversation: CHANGE OF OPERATOR NAME FROM RIO BRAVO C/O SANTA FE (N9510)
TO SANTA FE ENERGY RESOURCES, INC. PER LETTER OF 2-13-91.

4. Highlights of Conversation: _____
*FREDA JACKSON (713)268-5629 W/SANTA FE ENERGY RESOURCES, INC., SAYS THE WELL LISTED UNDER ABOVE MENTIONED COMPANY IS NO LONGER THEIR WELL "ROOSEVELT U 20-2" API NO. 43-047-31422. THE WELL WAS SOLD TO ORBIS EX-IM. SHE HAS SPOKEN WITH HAROLD BLACK WITH DOGM REGARDING SUCH, HOWEVER THE MATTER IS STILL PENDING. MS. JACKSON WILL CHECK INTO THEIR FILE AND CALL OUR OFFICE BACK.
*HAROLD BLACK - DOGM HAS BEEN UNABLE TO GET IN TOUCH WITH ORBIS EX-IM, SEVERAL ATTEMPTS HAVE BEEN MADE UNSUCCESSFULLY. DOGM HAS NOT IN THE PAST RECEIVED ANY DOCUMENTATION REGARDING RIO BRAVO CHANGING TO SANTA FE ENERGY COMPANY AND ON 11-16-90 PER DTS, THE ADDRESS WE HAD LISTED "7200 1-40 W, 1 SECURITY PK, ARMILLO TX 79106" WAS CLEARED FROM OUR COMPUTERIZED SYSTEM TO PREVENT MAILING OF PROD. REPORTS.
*WAYNE CARPENTER (713)268-5440, HAS TAKEN OVER THIS MATTER, PER FREDA JACKSON W/SANTA FE ENERGY RESOURCES, INC. (3-7-91/1:30)

12-11-90

to see the well plugged. No equipment remains at the well site. Ed is currently out, so we will follow up with him when he returns to the office.

Walker E&P Corp/Texas Meridian

Walker E&P/Texas Meridian initially claimed to have sold their well, but we then discovered they had not completed all the necessary paperwork between operators and with the regulatory agencies. John Wells at Quinex will file the production and disposition reports when the operator change is complete. Texas Meridian has the next action to take, but they have been somewhat slow since early November. We will continue to follow up.

Raphael Pumpelly, Jr.

Raphael, Jr. is very hard to reach. We spoke with Raphael, Sr. on September 24th and October 9th regarding late reporting, and Sr. would have Jr. contact us. We left four messages before Raphael, Jr. called on October 25th and apologized for not submitting reports. He was going to bring it up-to-date, however we have received nothing. None of the four messages we left in November were ever returned.

The Audit section recommends the Division issue a letter requiring reports be submitted in 20 days, or an Order to Show Cause would be issued by the Board.

Rio Bravo

Rio Bravo transferred their ownership in the Roosevelt Unit to Orbis Ex-Im in New York City. The audit section has tried to contact Orbis through Directory Information for New York City and had no luck, we left four messages with the law firm in Dallas who represented Orbis and heard nothing, and we have been working with Sante Fe (agent for Rio Bravo) who does not know how to contact Orbis.

The BLM recognizes only one operator (Gavilan) as the operator of the Green River formation in the Roosevelt Unit, but we have collected data at the sub-operator level such as Rio Bravo over the past years. We tried to get Gavilan to take over reporting, but they desire us to continue to receive the production data from the sub-operator level. We have received the Federal MRO's prepared by Gavilan through 6/90 on this well, which our Division could input. We need suggestions on how to remedy this situation for the future.

Fuelex

We spoke with Ray Denton, the former President of Fuelex. He said he had resigned from the company. On October 12th, he told us the company assets were sold, but he didn't remember what happened to the well we were calling about. On October 19th, Mr. Denton said he checked but he couldn't find any information relating to the

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File _____
(Location) Sec ___ Twp ___ Rng ___
(API No.) _____

Suspense
(Return Date) _____
(To - Initials) _____

Other
OPERATOR FILE _____
BOND FILE _____

1. Date of Phone Call: 3-7-91 Time: 4:15

2. DOGM Employee (name) L. ROMERO (Initiated Call
Talked to:
Name MARGIE HERMAN (Initiated Call - Phone No. (801) 789-1362
of (Company/Organization) BLM/VERNAL

3. Topic of Conversation: INDIAN LEASE #I-109-IND-5247/BOND COVERAGE
(WHO THEY RECOGNIZE AS OPERATOR OF THE ROOSEVELT UNIT 20-2 WELL)
43-047-31422-- (SEC. 20, T. 1S, R. 1E - UINTAH COUNTY)

4. Highlights of Conversation: _____
MARGIE WILL CHECK THEIR RECORDS AND CALL ME BACK ASAP.
*3-11-91/BLM VERNAL RECOGNIZES GAVILAN AS THE OPERATOR OF THIS WELL. GAVILAN IS
THE UNIT OPERATOR OF THE GRRV PZ. (LEASEE D & J OIL CO. 100%)

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File _____

(Location) Sec ___ Twp ___ Rng ___
(API No.) _____

Suspense
(Return Date) _____
(To - Initials) _____

Other
OPERATOR CHANGE
FILE. _____

1. Date of Phone Call: 7-10-91 Time: 9:30

2. DOGM Employee (name) LISHA ROMERO (Initiated Call
Talked to:
Name _____ (Initiated Call - Phone No. (801) 530-4849(1)
of (Company/Organization) DEPT. OF COMMERCE/DIV. OF CORPORATIONS

3. Topic of Conversation: ORBIS EX-IM UTAH, INC.

4. Highlights of Conversation: UTAH CORPORATION AS OF 2-27-89, #135617, IN GOOD
STANDING. REGISTERED AGENT IS WAYNE SWANN/VANCOTT & BAGLEY LOCATED 50 S. MAIN,
SUITE 1600, SALT LAKE CITY, UTAH 84144.

**PRESIDENT-CALVIN WALLEN III
VICE-PRESIDENT-JOSEPH F. WALLEN
SECRETARY-JOSEPH F. WALLEN

1-	LGR SLS
2-	DTS DT
3-	VLC ✓
4-	RJF ✓
5-	RWM ✓
6-	LGR ✓

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 1-1-89)

TO (new operator)	<u>ORBIS EX-IM UTAH, INC.</u>	FROM (former operator)	<u>RIO BRAVO OIL COMPANY</u>
(address)	<u>C/O VANCOTT & BAGLEY</u>	(address)	<u>C/O SANTA FE</u>
	<u>50 S. MAIN, SUITE 1600</u>		<u>(SANTA FE ENERGY RESOURCES)</u>
	<u>SALT LAKE CITY, UT 84144</u>		<u>WAYNE CARPENTER</u>
	phone (801) <u>WAYNE SWANN/REG. AGENT</u>		phone (713) <u>268-5440</u>
	account no. <u>N9640 (7-10-91)</u>		account no. <u>N 9510(A)</u>

Well(s) (attach additional page if needed):

Name:	<u>ROOSEVELT UNIT 20-2/GR</u>	API:	<u>43-047-31422</u>	Entity:	<u>9301</u>	Sec	<u>20</u>	Twp	<u>1S</u>	Rng	<u>1E</u>	Lease Type:	<u>INDIAN</u>
Name:	<u>*FEE SURFACE</u>	API:		Entity:		Sec		Twp		Rng		Lease Type:	
Name:	<u>INDIAN MINERALS</u>	API:		Entity:		Sec		Twp		Rng		Lease Type:	
Name:	<u>(I-109-IND-5247)</u>	API:		Entity:		Sec		Twp		Rng		Lease Type:	
Name:		API:		Entity:		Sec		Twp		Rng		Lease Type:	
Name:		API:		Entity:		Sec		Twp		Rng		Lease Type:	
Name:		API:		Entity:		Sec		Twp		Rng		Lease Type:	

OPERATOR CHANGE DOCUMENTATION

1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 10-3-90)*
2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Phone documentation only.)*
3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes) (no) ____ If yes, show company file number: #135617.
4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(7-10-91)*
6. Cardex file has been updated for each well listed above.
7. Well file labels have been updated for each well listed above.
8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(7-10-91)*
9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- 2. A copy of this form has been placed in the new and former operators' bond files.
- 3. The former operator has requested a release of liability from their bond (yes/no) _____. Today's date _____ 19____. If yes, division response was made by letter dated _____ 19____.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19____, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- 2. Copies of documents have been sent to State Lands for changes involving State leases.

MICROFILMING

- 1. All attachments to this form have been microfilmed. Date: July 17 1991.

FILED

- 1. Copies of all attachments to this form have been filed in each well file.
- 2. The original of this form and the original attachments have been filed in the Operator Change file.

REMARKS

910307 Bfm/Vernal Recognizes Gavilan as operator of well, however see letter to Calero dated 7-19-88.

* Unable to obtain documentation from Orbis Ex-Im Utah, Inc.

DOGM Form 5
 May 5, 1987

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS, AND MINING

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.)

5. LEASE DESIGNATION AND SERIAL NO. Indian	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME I-109-IND-5247	
7. UNIT AGREEMENT NAME Roosevelt	
8. FARM OR LEASE NAME Roosevelt Unit	
9. WELL NO. 20-2	
10. FIELD AND POOL, OR WILDCAT Bluebell	
11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA SESW Sec. 20, T1S, R1E	
12. COUNTY OR PARISH Uintah	13. STATE Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Caloco Energy, Inc.

3. ADDRESS OF OPERATOR
P.O. Box 181505 Dallas, Texas 75218

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
 At surface
 242' FSL 2457' FWL
 887' FNL 2370' FWL

14. API NUMBER
43-047-31422

16. ELEVATIONS (Show whether DV, XY, OR, etc.)

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Change of Operator</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>			

(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.)

Caloco Energy, Inc. has taken over as Operator of the Roosevelt 20-2 well effective January, 1990, from Orbis EX-IM Utah, Inc.

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

SIGNED Joe F. Wall TITLE Vice President DATE 7/5/91

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Routing:	
1-LCR SLS	<i>2/20</i>
2-DPS TS	
3-VLC	<input checked="" type="checkbox"/>
4-RJF	<input checked="" type="checkbox"/>
5-RWM	
6-LCR	<i>2/20</i>

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold)
- Designation of Operator
- Designation of Agent
- Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 1/90)

TO (new operator) CALOCO ENERGY, INC.
 (address) P. O. BOX 181505
DALLAS, TX 75218
JOE WALLEN
 phone (214) 271-4172
 account no. N 3410

FROM (former operator) ORBIS EX-IM UTAH, INC.
 (address) C/O VANCOTT & BAGLEY
50 S. MAIN, SUITE.1600
SALT LAKE CITY, UT 84144
 phone (801) WAYNE SWANN/AGEN
 account no. N 9640 (7-10-91)

Well(s) (attach additional page if needed):

Name: <u>ROOSEVELT UNIT 20-2/GR</u>	API: <u>43-047-31422</u>	Entity: <u>9301</u>	Sec <u>20</u> Twp <u>1S</u> Rng <u>1E</u>	Lease Type: <u>INDIAN</u>
Name: <u>*FEE SURFACE</u>	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: <u>INDIAN MINERALS</u>	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: <u>(I-109-IND-5247)</u>	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- N/A* 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Phone documentation only.)*
- See* 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 7-5-91)*
- N/A* 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: _____.
- See* 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- See* 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(7-10-91)*
- See* 6. Cardex file has been updated for each well listed above.
- See* 7. Well file labels have been updated for each well listed above.
- See* 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(7-10-91)*
- See* 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) (no) ____ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- 2. A copy of this form has been placed in the new and former operators' bond files.
- 3. The former operator has requested a release of liability from their bond (yes/no) ____.
Today's date _____ 19____. If yes, division response was made by letter dated _____ 19____.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19____, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- 2. Copies of documents have been sent to State Lands for changes involving State leases.

RECORDING

- 1. All attachments to this form have been microfilmed. Date: July 17 1991.

FILED

- 1. Copies of all attachments to this form have been filed in each well file.
- 2. The original of this form and the original attachments have been filed in the Operator Change file.

REMARKS

110307 Btm/Vernal Recognizes Gavilan as operator of well, however see letter to Caloco dated 7-19-88.
 * Unable to obtain documentation from Orbis Ex-Im Utah, Inc.

Routing:

1- LCR	✓
2- DTS	✓
3- VLC	✓
4- RJF	✓
5- RWM	✓
6- LQR	✓

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 5-24-91)

TO (new operator)	<u>GAVILAN PETROLEUM, INC.</u>	FROM (former operator)	<u>CALOCO ENERGY, INC.</u>
(address)	<u>3030 S. MAIN, SUITE 500</u>	(address)	<u>P. O. BOX 181505</u>
	<u>SALT LAKE CITY, UT 84115</u>		<u>DALLAS, TX 75218</u>
	<u>JAY MEALEY or BOB JEWITT</u>		<u>JOE WALLEN</u>
	<u>phone (801) 466-8960</u>		<u>phone (214) 271-4172</u>
	<u>account no. N 2275</u>		<u>account no. N 3410</u>

Well(s) (attach additional page if needed):

Name: <u>RU #1/GRRV</u>	API: <u>4304715550</u>	Entity: <u>9302</u>	Sec <u>21</u> Twp <u>1S</u> Rng <u>1E</u>	Lease Type: <u>INDIAN</u>
Name: <u>RU #2/GRRV</u>	API: <u>4304715551</u>	Entity: <u>9303</u>	Sec <u>21</u> Twp <u>1S</u> Rng <u>1E</u>	Lease Type: <u>INDIAN</u>
Name: <u>RU #4/GRRV</u>	API: <u>4304715549</u>	Entity: <u>9300</u>	Sec <u>13</u> Twp <u>1S</u> Rng <u>1W</u>	Lease Type: <u>FEE</u>
Name: <u>RU #11/GRRV</u>	API: <u>4304731428</u>	Entity: <u>9311</u>	Sec <u>21</u> Twp <u>1S</u> Rng <u>1E</u>	Lease Type: <u>INDIAN</u>
Name: <u>RU #13/GRRV</u>	API: <u>4304731414</u>	Entity: <u>9312</u>	Sec <u>13</u> Twp <u>1S</u> Rng <u>1W</u>	Lease Type: <u>INDIAN</u>
Name: <u>RU #15-A1E/GRRV</u>	API: <u>4304731696</u>	Entity: <u>10506</u>	Sec <u>28</u> Twp <u>1S</u> Rng <u>1E</u>	Lease Type: <u>FEE</u>
Name: <u>RU #18-A1E/GRRV</u>	API: <u>4304731687</u>	Entity: <u>10505</u>	Sec <u>27</u> Twp <u>1S</u> Rng <u>1E</u>	Lease Type: <u>INDIAN</u>
Name: <u>RU #20-2/GRRV</u>	API: <u>4304731422</u>	Entity: <u>9301</u>	Sec <u>20</u> Twp <u>1S</u> Rng <u>1E</u>	Lease Type: <u>INDIAN</u>

OPERATOR CHANGE DOCUMENTATION

- N/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(See BLM letters dated 3-17-88 and 7-19-88)*
- See 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(5-24-91)*
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: _____.
- See 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(8-7-91)*
- See 6. Cardex file has been updated for each well listed above. *(8-7-91)*
- See 7. Well file labels have been updated for each well listed above. *(8-7-91)*
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(8-7-91)*
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond. *Not, as of yet!*
- 2. A copy of this form has been placed in the new and former operators' bond files. ** Upon completion of routing.*
- 3. The former operator has requested a release of liability from their bond (yes/no) no. Today's date August 7, 1991. If yes, division response was made by letter dated _____ 19____.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated 8/9 1991, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested. *by 8/30/91 WOI 201*
- 2. Copies of documents have been sent to State Lands for changes involving State leases.

MICROFILMING

- 1. All attachments to this form have been microfilmed. Date: August 13 1991. *RWM*

FILED

- 1. Copies of all attachments to this form have been filed in each well file.
- 2. The original of this form and the original attachments have been filed in the Operator Change file.

REMARKS

See btm letters dated 3-17-88 and 7-19-88.



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

August 9, 1991

Mr. Joe Wallen
Caloco Energy, Inc.
P.O. Box 181505
Dallas, Texas 75218

Dear Mr. Wallen:

Re: Notification of Sale or Transfer of Lease Interest - RU 4, Sec. 13, T. 1S, R. 1W, Uintah County, API No. 43-047-15549, RU 15-A1E, Sec. 28, T. 1S, R. 1E, Uintah County, API No. 43-047-31696

The division has received notification of a change of operator from Caloco Energy Inc. to Gavilan Petroleum, Inc. for the referenced wells which are located on fee leases.

Rule R615-2-10, of the Utah Oil and Gas Conservation General Rules, requires that the owner of a lease provide notification to any person with an interest in such lease, when all or part of that interest in the lease is sold or transferred.

This letter is written to advise Caloco Energy, Inc. of its responsibility to notify all individuals with an interest in these leases of the change of operator. Please provide written documentation of this notification to the division no later than August 30, 1991.

Sincerely,

Don Staley
Administrative Supervisor
Oil and Gas

ldc
cc: R.J. Firth
WOI201

GAVILAN PETROLEUM, INC.

3030 South Main, Suite 500
Salt Lake City, UT 84115
(801) 466-8960

Mr. Calvin Wallen
CALOCO ENERGY, INC.
1919 South Shiloh Road, Suite 625
Garland, TX 75042

May 23, 1991

~~6-12-91~~ ~~6-30-91~~
DTS
RECEIVED

MAY 24 1991

*Called Gavilan 5-29-91.
Spoke w/ receptionist.
She said Gavilan is now operating
these wells.
Caloco is working to clean up the
matter.
Gavilan will notify us if/when Caloco becomes
operator again.*

DIVISION OF
OIL GAS & MINING

Re: Roosevelt Unit Royalty Payments

DTS 5-29-91

Dear Mr. Wallen:

Gavilan Petroleum, Inc. has been advised by the Bureau of Land Management, the Ute Indian Tribe and several fee mineral owners that royalty and/or tax payments have not been paid for production revenue taken by Caloco for the Roosevelt Unit #2, #13, #15-A1 and #18-A1 wells.

In May, 1990 Gavilan became aware that Caloco had failed to make certain royalty and tax payments on the wells it operated in the Roosevelt Unit. After a demand by Gavilan, Caloco provided evidence that led Gavilan to believe the payment deficiencies were remedied. The current evidence provided to Gavilan indicates continued non-payment of royalties and/or taxes and an apparent unwillingness on the part of Caloco to fulfill its responsibilities as operator of the wells to pay royalties and taxes or to remedy the deficiency in payment of prior royalties and taxes due.

Pursuant to the authority granted Gavilan under the Unit Agreement and Unit Operating Agreement, this letter is to advise that effective May 24, 1991 at 1:00 p.m. MDT, Gavilan will take over and assume operations of the following wells in the Roosevelt Unit:

<u>WELL NAME</u>	<u>API NO.</u>
Roosevelt Unit #1	4304715550
Roosevelt Unit #2	4304715551
Roosevelt Unit #4	4304715549
Roosevelt Unit #11	4304731428
Roosevelt Unit #13	4304731414
Roosevelt Unit #15-A1	4304731696
Roosevelt Unit #18-A1	4304731687
Roosevelt Unit #20-2	4304731422

Please notify your crude oil purchaser that Gavilan is the operator of the above stated wells in the Roosevelt Unit and no further crude oil shipments, or payments for shipments already taken, should be made without prior approval from Gavilan. Please also notify all current vendors, suppliers and other interested parties that Gavilan is the operator of all the above wells in the Roosevelt Unit and no activity should be undertaken without prior approval from Gavilan or its authorized representative.

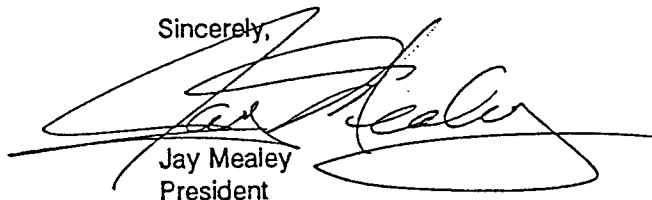
If by May 24, 1991 at 1:00 p.m. MDT, Gavilan receives all of the following information, Gavilan will suspend the action set forth herein:

1. A written statement and satisfactory evidence, including, but not limited to reports and canceled checks, indicating that all royalties due to the respective royalty owners for all of the above wells have been paid on all production revenue through the April, 1991 production month.

2. A written statement and satisfactory evidence, including, but not limited to reports and canceled checks, indicating that all severance taxes, conservation taxes, and withholding taxes for all of the above wells, including all penalty and interest, have been reported and paid to the Utah State Tax Commission through the most current period.
3. A written statement and satisfactory evidence, including, but not limited to reports and canceled checks, indicating that all taxes due to the Ute Indian Tribe for all of the above wells, including all penalty and interest, have been reported and paid through the most current period.
4. A written statement and satisfactory evidence that all ad valorem taxes for all of the above wells have either been paid or formally protested.

This notice and action will take place without further notification by Gavilan on the effective date set forth herein.

Sincerely,



Jay Mealey
President

JM/sjb

cc: Bureau of Land Management
Mr. R. A. Hendricks
324 South State
Salt Lake City, UT 84111

Bureau of Land Management
Mr. Howard B. Cleavinger, II
Vernal District Office
170 South 500 East
Vernal, UT 84078

Mr. Grant Bleazard
Sundown Oil & Gas
P. O. Box 33
Mountain Home, UT 84051

Ute Indian Tribe
Mr. Ferron Secakuku
P. O. Box 190
Ft. Duchesne, UT 84026

Bureau of Indian Affairs
UNN/Ouray Agency
Mr. Charles Cameron
P. O. Box 130
Ft. Duchesne, UT 84026

Division of Oil, Gas & Mining
Mr. R. J. Firth
3 Triad Center, Suite 350
355 West North Temple
Salt Lake City, UT 84180-1203

Mr. Tom Bachtell
Pruitt, Gushee and Bachtell
1850 Beneficial Life Tower
Salt Lake City, UT 84111

There does not exist in the regulations in which well status, either Shut-in or Temporary Abandonment, relieves an operator of the responsibility to comply with any portion of the regulations, including site security and surface concerns.

Any adversely affected party who contests a decision of the authorized officer may request an administrative review before the State Director. Such requests, including all supporting documentation, shall be filed with the appropriate State Director within twenty (20) business days of receipt of the notice. Upon request and showing good cause, an extension for submitting supporting data may be granted by the State Director. Requests for administrative review should be sent to:

State Director (U-931)
Bureau of Land Management
Utah State Office
P. O. Box 45155
Salt Lake City, Utah, 84145-0155.

If you have any questions regarding this matter please contact Wayne Bankert, Ed Forsman, or Jerry Kenczka at (435) 781-4400.

Sincerely,



Howard B. Cleavinger II
AFM for Minerals

cc: Roadrunner Oil
BIA
Utah DOGM

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH
2. CDW
3. FILE

X Change of Operator (Well Sold)

Designation of Agent/Operator

Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:

7/21/2004

FROM: (Old Operator): N2275-Gavilan Petroleum, Inc. 2011 Little Kate Road PO Box 1329 Park City, UT 84060 Phone: 1-(TO: (New Operator): N2650-Elk Production, LLC 770 S Post Oak Lane, Suite 320 Houston, TX 77056 Phone: 1-(713) 751-9500
--	--

CA No.

Unit:

Roosevelt Unit

WELL(S)								
NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
UTE 1-19A1E	19	010S	010E	4304730902	1085	Fee	OW	TA
ROOSEVELT U 15-A1E	28	010S	010E	4304731696	10506	Fee	OW	P
ROOSEVELT U 4	13	010S	010W	4304715549	9300	Fee	OW	TA
UTE TRIBAL 1 (RU 1)	21	010S	010E	4304715550	9302	Indian	OW	TA
UTE TRIBAL 2 (RU 2)	21	010S	010E	4304715551	9303	Indian	OW	TA
UTE TRIBAL 3 (RU 3)	28	010S	010E	4304715552	9304	Indian	OW	S
ROOSEVELT U 9	28	010S	010E	4304731384	9308	Indian	OW	TA
ROOSEVELT U 20-2	17	010S	010E	4304731422	9301	Indian	OW	TA
ROOSEVELT U 12 GR	20	010S	010E	4304731427	10814	Indian	OW	S
ROOSEVELT U 11	21	010S	010E	4304731428	9311	Indian	OW	S
ROOSEVELT U 10	21	010S	010E	4304731429	9309	Indian	OW	S
ROOSEVELT U 18-A1E	27	010S	010E	4304731687	10505	Indian	OW	P
ROOSEVELT U 13	13	010S	010W	4304731414	9312	Indian	OW	S

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 8/11/2004
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 8/11/2004
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 7/27/2004
- Is the new operator registered in the State of Utah: YES Business Number: 5693065-0161
- If **NO**, the operator was contacted on: _____
- (R649-9-2)Waste Management Plan has been received on: to follow
- Inspections of LA PA state/fee well sites requested on: 8/31/2004

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA applied for

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

1. Changes entered in the Oil and Gas Database on: 8/31/2004
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 8/31/2004
3. Bond information entered in RBDMS on: 8/31/2004
4. Fee/State wells attached to bond in RBDMS on: 8/31/2004
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: n/a

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: B001061

FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number B000969
2. The **FORMER** operator has requested a release of liability from their bond on: 3/17/2004
The Division sent response by letter on: 3/24/2004

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 9/1/2004

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: Gavilan Petroleum, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 2011 Little Kate Road, PO Box 1329, Park City, UT <small>CITY STATE ZIP</small>		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL See Attached Sheet 84060 FOOTAGES AT SURFACE: QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		8. WELL NAME and NUMBER:
		9. API NUMBER:
		10. FIELD AND POOL, OR WILDCAT:
		COUNTY:
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____ <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective July 21, 2004

PREVIOUS OPERATOR:
GAVILAN PETROLEUM, INC. N2275
a Utah corporation

NEW OPERATOR:
ELK PRODUCTION, LLC, N2650
a Texas limited liability company
770 South Post Oak Lane, Suite 320
Houston, TX 77056

NAME (PLEASE PRINT) <u>R. J. Pinder</u>	TITLE <u>V. P. Richard P. Crist</u>
SIGNATURE <u>[Signature]</u>	DATE <u>7/21/04</u> (713) 751-9500

(This space for State use only) Robert Pinder, Vice President

Richard P. Crist, Vice President

RECEIVED
AUG 11 2004

Well Name API Number	Location	Mineral Ownership
Roosevelt U 4 43-047-15549	T1S-R1W § 13: SWSW	FEE
Ute Tribal 1 / (RU1) 43-047-15550	T1S-R1E § 21: NWSW	INDIAN
Ute Tribal 2 / (RU2) 43-047-15551	T1S-R1E § 21: NWSE	INDIAN
Ute Tribal 3 (RU3) 43-047-15552	T1S-R1E § 28: SENE	INDIAN
Ute 1-19A1E 43-047-30902	T1S-R1E § 19: NENW	FEE
Roosevelt U 9 43-047-31384	T1S-R1E § 28: NWNE	INDIAN
Roosevelt U 13 43-047-31414	T1S-R1W § 13: NESW	INDIAN
Roosevelt U 20-2 43-047-31422	T1S-R1E § 17: SESW	INDIAN
Roosevelt U 12 GR 43-047-31427	T1S-R1E § 20: SESW	INDIAN
Roosevelt U 11 43-047-31428	T1S-R1E § 21: SESE	INDIAN
Roosevelt U 10 43-047-31429	T1S-R1E § 21: SESW	INDIAN
Roosevelt U 18-A1E 43-047-31687	T1S-R1E § 27: NWSW	INDIAN
Roosevelt U 15-A1E 43-047-31696	T1S-R1E § 28: SWNW	FEE

All operations on the FEE wells will be covered by Bond No. B000969.

All operations on the INDIAN wells will be covered by a bond posted with the Bureau of Indian Affairs.

RECEIVED

AUG 11 2004

DIV. OF OIL, GAS & MINING



United States Department of the Interior

BUREAU OF INDIAN AFFAIRS

**Utah and Ouray Agency
P.O. Box 130, 988 South 7500 East
Fort Duchesne, Utah 84026-0130
(435) 722-4300**

43047-31422
TIS RIE sec 17

IN REPLY REFER TO:
MS - 410 Real Estate Services
Minerals & Mining Section

October 3, 2005

Elk Production L.L.C.
Richard P. Crist, Executive Vice President
1401 17th Street, Suite 700
Denver, CO 80202

Dear Mr. Crist;

Enclosed is the indenture, with Bureau of Indian Affairs approval for Elk Production L.L.C. as the Roosevelt Unit Operator.

My staff is continuing to process your Surface Use Agreement with the Ute Indian Tribe, lease modification for lease 14-20-H62-4692, and the Roosevelt Unit lease assignments.

Sincerely,

Chester D. Mills
Superintendent

Enclosure: Indenture

cc: ✓ Utah Division of Oil, Gas, and Mining
Bureau of Land Management, Utah State Office
Bureau of Land Management, Vernal Field Office
Branch and Chrono Files

RECEIVED

NOV 04 2005

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: INDIAN
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: ROOSEVELT
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: ROOSEVELT U 20-2
2. NAME OF OPERATOR: ELK PRODUCTION, LLC	9. API NUMBER: 43047314220000
3. ADDRESS OF OPERATOR: 1401 17th Street, Suite 700 , Denver, CO, 80202	PHONE NUMBER: 303 296-4505 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0242 FSL 2457 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 17 Township: 01.0S Range: 01.0E Meridian: U	9. FIELD and POOL or WILDCAT: BLUEBELL COUNTY: UINTAH STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/1/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input checked="" type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Elk San Juan is electing to plug and abandon the subject well in accordance with the proposed plugging procedure (attached), in response to the certified letter dated June 24, 2010, Re: Violation of Sundry Notice Conditions of Approval. This letter issued by the BLM instructed Elk San Juan that this well needs to be plugged, begin producing again, or converted.

**Accepted by the
Utah Division of
Oil, Gas and Mining**

Date: August 19, 2010
 By: *Don K. Quist*

NAME (PLEASE PRINT) Merrell Olsen	PHONE NUMBER 303 339-1919	TITLE Engineer I
SIGNATURE N/A		DATE 8/12/2010

Roosevelt Unit #20-2

10 3/4" 2,500' TOC surface

7" 10,400' TOC 6,310'

Perfs: 7,671'-7,681', 7,719'-7,728', 8,564'-8,566', 8,788'-9,154', 9,595'-9,746',
9,780'-9,934', 9,981'-10,114'

Tubing unkown

Notify DOGM of P&A at least 24 hrs prior to starting work

Prior to MIRU blow the well down and check deadmen

MIRU, NDWHM, NUBOP

POH with tubing (none shown on well diagram, have workstring available) and check RIH to 7,600' with bit. Note possible CIBP at 6,000'. If CIBP is in place call for orders

Hot oil well

POH and RIH with CICR set at 7,600'.

Pressure test tubing, establish rate, and inject 100 sacks of cement under and 10 on top

Roll hole with produced water with corrosion inhibitor

Pressure test casing, if casing fails call for orders

POH

RIH to the base of usable water and perforate

RIH and spot 60 sacks across perfs, POH, bullhead all but 20 out of the perfs

POH

Cut and pull casing from 50' below the base of surface

Spot 100 sacks

POH and WOC

Tag and add cement if necessary to bring TOC to 100' above the shoe

POH, NDBOP, RIH to 50'

Circulate cement to surface

Cut off wellhead, to off cement

Weld a plate

All cement 15.8#/gal class G neat

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING
 1. CDW

Change of Operator (Well Sold)

X - Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

6/8/2011

FROM: (Old Operator): N2650-Elk Production, LLC 1401 17th Street, Suite 700 Denver, CO 80202 Phone: 1 (303) 296-4505	TO: (New Operator): N3770-Elk Production Uintah, LLC 1099 18th Street, Suite 2300 Denver, CO 80202 Phone: 1 (303) 312-8134
---	--

CA No.

Unit:

ROOSEVELT

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LIST								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 7/27/2011
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 7/27/2011
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 7/27/2011
- 4a. Is the new operator registered in the State of Utah: Business Number: 8025875-0161
- 5a. (R649-9-2)Waste Management Plan has been received on: requested
- 5b. Inspections of LA PA state/fee well sites complete on: n/a
- 5c. Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA not yet
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on:
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 7/27/2011
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 7/27/2011
- Bond information entered in RBDMS on: 7/27/2011
- Fee/State wells attached to bond in RBDMS on: 7/27/2011
- Injection Projects to new operator in RBDMS on: n/a
- Receipt of Acceptance of Drilling Procedures for APD/New on: 7/27/2011

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: n/a
- Indian well(s) covered by Bond Number: LPM4138175
- 3a. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number LPM4138148 and LPM9046685
- 3b. The **FORMER** operator has requested a release of liability from their bond on: n/a

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 7/27/2011

COMMENTS:

Elk Production Uintah, LLC (N3770) from Elk Production, LLC (N2650)
effective June 8, 2011

well_name	qtr_qtr	sec	twp	rng	api	entity	Lease	well	stat	conf	zone	lease no
ROOSEVELT U 4	SWSW	13	010S	010W	4304715549	9300	Fee	OW	P		GRRV	FEE
UTE TRIBAL 1 (RU 1)	NWSW	21	010S	010E	4304715550	9302	Indian	OW	TA		GRRV	14-20-H62-4692
UTE TRIBAL 2 (RU 2)	NWSE	21	010S	010E	4304715551	9303	Indian	OW	TA		GRRV	I-109-IND-5242
UTE TRIBAL 3 (RU 3)	SENE	28	010S	010E	4304715552	9304	Indian	OW	S		GRRV	14-20-H62-4692
UTE 1-19A1E	NENW	19	010S	010E	4304730902	1085	Fee	OW	P		GRRV	FEE
ROOSEVELT B2	NWSW	20	010S	010E	4304731187	9307	Fee	OW	P		GRRV	FEE
WASATCH 6	SWSW	20	010S	010E	4304731366	221 13586	Indian	OW	P		WSTC GRRV	14-20-H62-4699
ROOSEVELT U 9	NWNE	28	010S	010E	4304731384	9308	Indian	OW	S		GRRV	I-109-IND-5242
ROOSEVELT A-7	SWNW	19	010S	010E	4304731402	12560 13586	Fee	OW	P		WSTC GRRV	FEE
ROOSEVELT U 13	NESW	13	010S	010W	4304731414	9312	Indian	OW	S		GRRV	I-109-IND-5242
ROOSEVELT U 20-2	SESW	17	010S	010E	4304731422	9301	Indian	OW	TA		GRRV	14-20-H62-5247
ROOSEVELT U 12 GR	SESW	20	010S	010E	4304731427	10814	Indian	OW	TA		GRRV	I-109-IND-5242
ROOSEVELT U 11	SESE	21	010S	010E	4304731428	9311	Indian	OW	P		GR-WS	14-20-H62-4692
ROOSEVELT U 10	SESW	21	010S	010E	4304731429	9309	Indian	OW	S		GRRV	14-20-H62-4692
WASATCH 9	NENW	28	010S	010E	4304731445	221 13586	Indian	OW	P		WSTC GRRV	I-109-IND-5242
WASATCH 10	SWNE	21	010S	010E	4304731446	221 13586	Indian	OW	P		WSTC GRRV	I-109-IND-5242
ROOSEVELT U 5	SWSE	20	010S	010E	4304731447	13586	Indian	OW	P		GRRV	14-20-H62-4700
ROOSEVELT C11	NESW	18	010S	010E	4304731500	12560 13586	Fee	OW	P		WSTC GRRV	FEE
ROOSEVELT U 18-A1E	NWSW	27	010S	010E	4304731687	221 13586	Indian	OW	P		WSTC GRRV	14-20-H62-4692
ROOSEVELT U 15-A1E	SWNW	28	010S	010E	4304731696	10506	Fee	OW	S		GRRV	FEE
MARY R. U. 278	NWSE	13	010S	010W	4304731845	12560	Fee	OW	P		WSTC	FEE
ROOSEVELT U 3-19	NWNE	19	010S	010E	4304736304	13586	Fee	OW	P		GRRV	FEE
ROOSEVELT U 4-19	NWSE	19	010S	010E	4304736599	12560 13586	Fee	OW	P		WSTC GRRV	FEE
ROOSEVELT U 5-19	NESW	19	010S	010E	4304736843	12560 13586	Fee	OW	P		WSTC GRRV	FEE
ROOSEVELT U 28-33	NWSE	28	010S	010E	4304738142	221 13586	Indian	OW	P		WSTC GRRV	14-20-H62-4691
ROOSEVELT U 7-20	NWNW	20	010S	010E	4304738292	12560	Fee	OW	DRL	C	WSTC	FEE
ROOSEVELT U 20-24	SENE	20	010S	010E	4304738329		Indian	OW	APD	C		14-20-H62-4691
ROOSEVELT U 21-41	SWSW	21	010S	010E	4304738333		Indian	OW	APD	C		14-20-H62-4691
ROOSEVELT U 21-43	SWSE	21	010S	010E	4304738873	221	Indian	OW	OPS	C	WSTC	14-20-H62-4691
ROOSEVELT U 28-14	NENE	28	010S	010E	4304738882		Indian	OW	APD	C		14-20-H62-4691
ROOSEVELT U 29-14	NENE	29	010S	010E	4304739923	221 13586	Indian	OW	P		WSTC GRRV	14-20-H62-4701
ROOSEVELT UNIT 20-13	NWNE	20	010S	010E	4304751501		Indian	OW	APD			14-20-H62-4691

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

			5. LEASE DESIGNATION AND SERIAL NUMBER:
			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
			7. UNIT or CA AGREEMENT NAME: Roosevelt Unit
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____			8. WELL NAME and NUMBER: see attached
2. NAME OF OPERATOR: Elk Production Uintah, LLC			9. API NUMBER: see attach
3. ADDRESS OF OPERATOR: 1099 18th Street, Suite 2300 CITY Denver STATE CO ZIP 80202		PHONE NUMBER: (303) 312-8134	10. FIELD AND POOL, OR WILDCAT: see attached
4. LOCATION OF WELL FOOTAGES AT SURFACE: see attached			COUNTY: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:			STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>1/1/2011</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Company Merger/Name Chg</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This letter is to inform you that Bill Barrett Corporation (BBC) acquired the Uintah County assets of Elk Production, LLC (N2650) and during the course of this merger, the company name was changed to Elk Production Uintah, LLC (a wholly owned subsidiary of BBC). This entity and all of Elk Production, LLC wells within the Roosevelt Unit will continue to be operated by Elk Production Uintah, LLC and all regulatory documents will be submitted in this company name.

Please see the attached list of wells that require name and address changes within your records and the appropriate APD Transfer forms for wells permitted but not drilled.

All future correspondence for these properties should be sent to the appropriate personnel at BBC to the following address:

1099 18th Street, Suite 2300
Denver, CO 80202

Bonds: BIA LPM4138175 State/Fee LPM4138148 (LPM9046685 for 4304731696 only)

EFFECTIVE: June 8, 2011

NAME (PLEASE PRINT) <u>Tracey Fallang</u>	TITLE <u>Regulatory Manager</u>
SIGNATURE <u><i>Tracey Fallang</i></u>	DATE <u>7/22/2011</u>

(This space for State use only)

APPROVED 7/27/2011
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

(5/2000)

RECEIVED
JUL 27 2011
DIV. OF OIL, GAS & MINING

ELK PRODUCTION UINTAH, LLC COMPANY NAME CHANGE/MERGER ATTACHMENT

API No.	Well Name & Number	Lease	Well Type	Location				UNIT
				Qtr/Qtr	Sec	Twn	Rng	
4304715549	ROOSEVELT U 4	FEE	OW	SWSW	13	010S	010W	ROOSEVELT
4304715550	UTE TRIBAL 1 (RU 1)	INDIAN	OW	NWSW	21	010S	010E	ROOSEVELT
4304715551	UTE TRIBAL 2 (RU 2)	I-109-IND-5242	OW	NWSE	21	010S	010E	ROOSEVELT
4304715552	UTE TRIBAL 3 (RU 3)	INDIAN	OW	SENE	28	010S	010E	ROOSEVELT
4304730902	UTE 1-19A1E	FEE	OW	NENW	19	010S	010E	ROOSEVELT
4304731187	ROOSEVELT B2	FEE	OW	NWSW	20	010S	010E	ROOSEVELT
4304731366	WASATCH 6	14-20-H62-4699	OW	SWSW	20	010S	010E	ROOSEVELT
4304731384	ROOSEVELT U 9	I-109-IND-5242	OW	NWNE	28	010S	010E	ROOSEVELT
4304731402	ROOSEVELT A-7	FEE	OW	SWNW	19	010S	010E	ROOSEVELT
4304731414	ROOSEVELT U 13	I-109-IND-5242	OW	NESW	13	010S	010W	ROOSEVELT
4304731422	ROOSEVELT U 20-2	INDIAN	OW	SESW	17	010S	010E	ROOSEVELT
4304731427	ROOSEVELT U 12 GR	I-109-IND-5242	OW	SESW	20	010S	010E	ROOSEVELT
4304731428	ROOSEVELT U 11	1420-H62-4692	OW	SESE	21	010S	010E	ROOSEVELT
4304731429	ROOSEVELT U 10	1420-H62-4692	OW	SESW	21	010S	010E	ROOSEVELT
4304731445	WASATCH 9	I-109-IND-5242	OW	NENW	28	010S	010E	ROOSEVELT
4304731446	WASATCH 10	I-109-IND-5242	OW	SWNE	21	010S	010E	ROOSEVELT
4304731447	ROOSEVELT U 5	1420-H62-4700	OW	SWSE	20	010S	010E	ROOSEVELT
4304731500	ROOSEVELT C11	FEE	OW	NESW	18	010S	010E	ROOSEVELT
4304731687	ROOSEVELT U 18-A1E	14-20-H62-4692	OW	NWSW	27	010S	010E	ROOSEVELT
4304731696	ROOSEVELT U 15-A1E	FEE	OW	SWNW	28	010S	010E	ROOSEVELT
4304731845	MARY R. U. 278	FEE	OW	NWSE	13	010S	010W	ROOSEVELT
4304736304	ROOSEVELT U 3-19	FEE	OW	NWNE	19	010S	010E	ROOSEVELT
4304736599	ROOSEVELT U 4-19	FEE	OW	NWSE	19	010S	010E	ROOSEVELT
4304736843	ROOSEVELT U 5-19	FEE	OW	NESW	19	010S	010E	ROOSEVELT
4304738142	ROOSEVELT U 28-33	14-20-H62-4691	OW	NWSE	28	010S	010E	ROOSEVELT
4304738292	ROOSEVELT U 7-20	FEE	OW	NWNW	20	010S	010E	ROOSEVELT
4304738329	ROOSEVELT U 20-24	14-20-H62-4691	OW	SENE	20	010S	010E	ROOSEVELT
4304738333	ROOSEVELT U 21-41	14-20-H62-4691	OW	SWSW	21	010S	010E	ROOSEVELT
4304738873	ROOSEVELT U 21-43	14-20-H62-4691	OW	SWSE	21	010S	010E	ROOSEVELT
4304738882	ROOSEVELT U 28-14	14-20-H62-4691	OW	NENE	28	010S	010E	ROOSEVELT
4304739923	ROOSEVELT U 29-14	14-20-H62-4701	OW	NENE	29	010S	010E	ROOSEVELT
4304751501	ROOSEVELT UNIT 20-13	14-20-H62-4691	OW	NWNE	20	010S	010E	ROOSEVELT
								APD Trans Forms Attached

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Request to Transfer Application or Permit to Drill

(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	Roosevelt U 20-13
API number:	43047515010000
Location:	Qtr-Qtr: NWNE Section: 20 Township: 1S Range: 1E
Company that filed original application:	Elk Production, LLC
Date original permit was issued:	02/03/2011
Company that permit was issued to:	Elk Production Uintah, LLC

Check one	Desired Action:
	Transfer pending (unapproved) Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
✓	Transfer approved Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed? N/A		
If so, has the surface agreement been updated?		
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?		✓
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?		✓
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?		✓
Has the approved source of water for drilling changed?		✓
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?		✓
Is bonding still in place, which covers this proposed well? Bond No. <u>LPM4138175</u>	✓	

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

RECEIVED

JUL 27 2011

Name (please print) Tracey Fallang Title Regulatory Manager
 Signature *Tracey Fallang* Date 07/22/2011
 Representing (company name) Elk Production Uintah, LLC

DIV. OF OIL, GAS & MINING

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Request to Transfer Application or Permit to Drill

(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	Roosevelt U 28-14
API number:	43047388820000
Location:	Qtr-Qtr: NENE Section: 28 Township: 1S Range: 1E
Company that filed original application:	Elk Production, LLC
Date original permit was issued:	02/21/2007
Company that permit was issued to:	Elk Production Uintah, LLC

Check one	Desired Action:
<input type="checkbox"/>	Transfer pending (unapproved) Application for Permit to Drill to new operator
<input type="checkbox"/>	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	Transfer approved Application for Permit to Drill to new operator
<input type="checkbox"/>	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed? N/A	<input type="checkbox"/>	<input type="checkbox"/>
If so, has the surface agreement been updated?	<input type="checkbox"/>	<input type="checkbox"/>
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. <u>LPM4138175</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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RECEIVED

JUL 27 2011

Name (please print) Tracey Fallang Title Regulatory Manager
 Signature *Tracey Fallang* Date 07/22/2011 **DIV. OF OIL, GAS & MINING**
 Representing (company name) Elk Production Uintah, LLC

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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Request to Transfer Application or Permit to Drill

(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	Roosevelt U 21-41
API number:	43047383330000
Location:	Qtr-Qtr: SWSW Section: 21 Township: 1S Range: 1E
Company that filed original application:	Elk Production, LLC
Date original permit was issued:	06/29/2006
Company that permit was issued to:	Elk Production Uintah, LLC

Check one	Desired Action:
<input type="checkbox"/>	Transfer pending (unapproved) Application for Permit to Drill to new operator
<input type="checkbox"/>	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	Transfer approved Application for Permit to Drill to new operator
<input type="checkbox"/>	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed? N/A	<input type="checkbox"/>	<input type="checkbox"/>
If so, has the surface agreement been updated?	<input type="checkbox"/>	<input type="checkbox"/>
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. <u>LPM4138175</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

RECEIVED
JUL 27 2011

Name (please print) <u>Tracey Fallang</u>	Title <u>Regulatory Manager</u>
Signature <u><i>Tracey Fallang</i></u>	Date <u>07/22/2011</u>
Representing (company name) <u>Elk Production Uintah, LLC</u>	DIV. OF OIL, GAS & MINING

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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Request to Transfer Application or Permit to Drill

(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	Roosevelt U 20-24
API number:	43047383290000
Location:	Qtr-Qtr: SENE Section: 20 Township: 1S Range: 1E
Company that filed original application:	Elk Production, LLC
Date original permit was issued:	06/29/2006
Company that permit was issued to:	Elk Production Uintah, LLC

Check one	Desired Action:
<input type="checkbox"/>	Transfer pending (unapproved) Application for Permit to Drill to new operator
<input type="checkbox"/>	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	Transfer approved Application for Permit to Drill to new operator
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Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed? N/A	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> If so, has the surface agreement been updated?	<input type="checkbox"/>	<input type="checkbox"/>
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. <u>LPM4138175</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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JUL 27 2011

Name (please print) Tracey Fallang Title Regulatory Manager
 Signature *Tracey Fallang* Date 07/22/2011
 Representing (company name) Elk Production Uintah, LLC

DIV. OF OIL, GAS & MINING

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-5247
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: ROOSEVELT
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: ROOSEVELT U 20-2
2. NAME OF OPERATOR: ELK PRODUCTION UINTAH, LLC	9. API NUMBER: 43047314220000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8128 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0242 FSL 2457 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 17 Township: 01.0S Range: 01.0E Meridian: U	9. FIELD and POOL or WILDCAT: BLUEBELL COUNTY: UINTAH STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/1/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input checked="" type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Elk Production Uintah is asking permission for this well to remain in TA status until 8/1/14 when we will plan to plug this wellbore. Attached are the plugging procedures and WBD.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining**

Date: August 21, 2013

By: *Derek Quist*

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 8/6/2013	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047314220000

Plug #3 should be 50' inside casing stub to 50' minimum into casing shoe.



Roosevelt Unit #20-2
NWSW-17-1S-1E
API # 43-047-31422

July 25, 2013

OBJECTIVE

Plug and abandon the Roosevelt Unit #20-2 wellbore, reclaim the wellsite and access road to UDOGM specifications

P&A Procedure

1. Notify DOGM of P&A at least 24 hours before starting work
2. Prior to MIRU blow the well down and check diagram
3. MIRU
4. POOH with tubing (none shown on well diagram, have workstring available)
5. RIH with CIBP and set at 7600'
6. Spot 15 sks of cement on top (100' balance plug)
7. WOC
8. Tag cement plug to ensure proper depth
9. Roll hole with produced water and corrosion inhibitor
10. POOH
11. RIH to 4750' and spot 15 sks over hole in 7" casing (Top: 4650' Bottom: 4750')
12. POOH and WOC
13. Tag cement plug to ensure proper depth
14. POOH
15. Cut and pull casing from 50' below the shoe (2550')
16. RIH and spot 50 sks across shoe (Top: 2450' Bottom: 2550')
17. POOH and WOC
18. Tag cement and add cement if necessary to bring TOC to 50' above shoe
19. POOH, NDBOP, RIH to 50'
20. Circulate cement to surface
21. Cut off wellhead, top cement
22. Install appropriate dry hole marker consisting of 10-3/4" casing, 10' in length (4' above ground), welded to the existing casing string cap plate
 - a. The dry hole marker shall contain the following information
 - i. Well Name: Roosevelt Unit #20-2
 - ii. API: 43-047-31422
 - iii. Surface hole location: NWSW-17-1S-1E
23. Surface reclamation will be done in accordance with R649-3-24

Sundry Number: 41024 API Well Number: 43047314220000

RECEIVED: Aug. 06, 2013

WELLBORE DIAGRAM

Company: Bill Barrett Corporation
Lease: Roosevelt Unit
Location: NWSW Sec 17 1S 1E
Spud Date: 30-Dec-83

Well No.: 20-2
County: Uintah
Compl Date: 1984

API: 43-047-31422
Field: Altamont/Bluebell
State: Utah
Well Status: TA

WELLHEAD:

Surface Casing

Size: 10 3/4
 Wght: 40.5#
 Type: H-40
 Set @: 2,500
 Csg ID: 10.05
 Csg Drift: 9.89
 TOC: Surface
 Hole Size: 14 3/4

Intermediate Casing

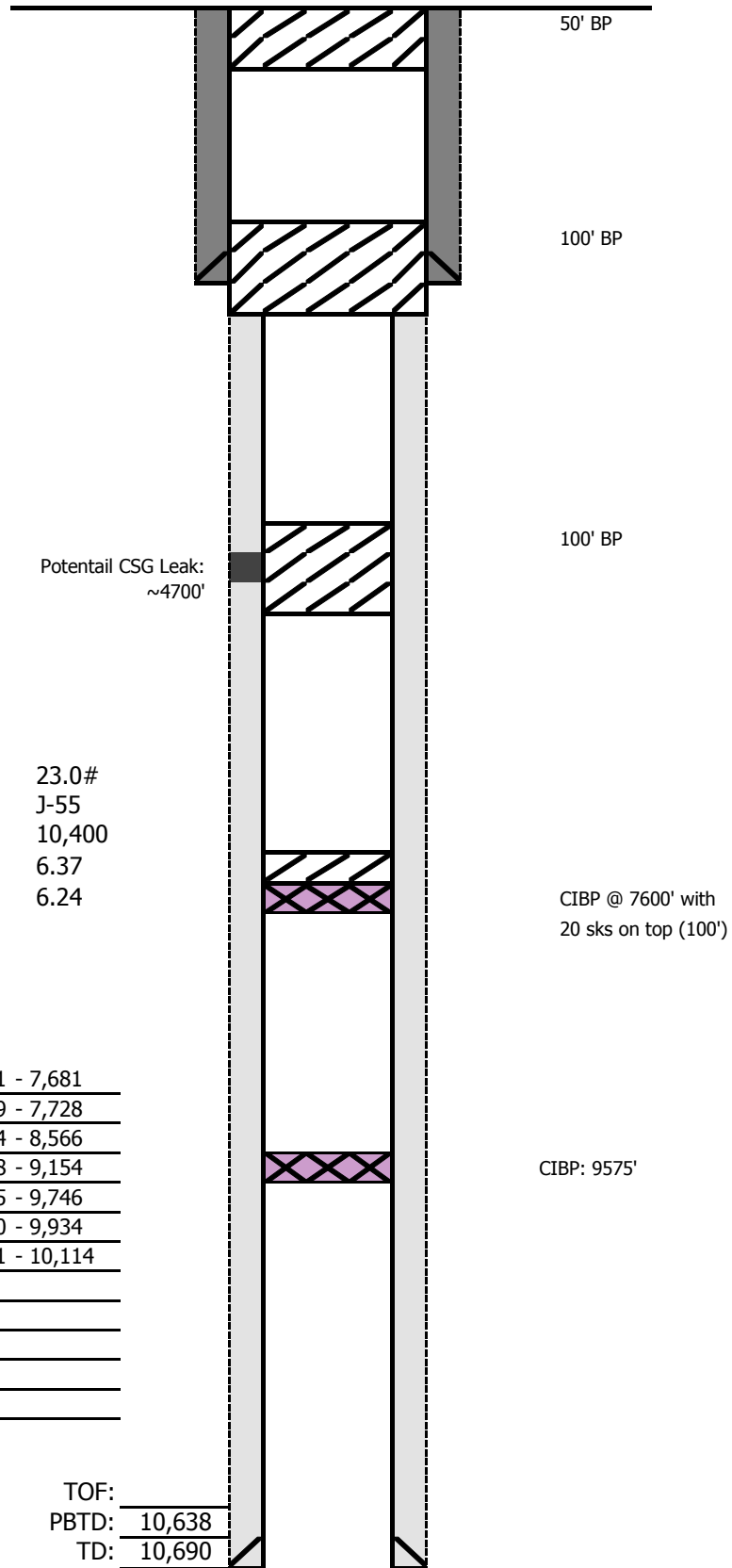
Size:
 Wght:
 Type:
 Set @:
 Csg ID: Potentail CSG Leak:
 Csg Drift: ~4700'
 TOC:
 Hole Size:

Production Casing

Size: 7
 Wght: 26.0# 23.0#
 Type: S-95 J-55
 Set @: UNK 10,400
 Csg ID: 6.28 6.37
 Csg Drift: 6.15 6.24
 TOC: 6,310
 Hole Size: 9 7/8

PERFORATIONS:

STAGE 7: 7,671 - 7,681
 STAGE 6: 7,719 - 7,728
 STAGE 5: 8,564 - 8,566
 STAGE 4: 8,788 - 9,154
 STAGE 3: 9,595 - 9,746
 STAGE 2: 9,780 - 9,934
 STAGE 1: 9,981 - 10,114



KB: 5500
 DF:
 GL: 5479
 21

TOF: _____
 PBD: 10,638
 TD: 10,690

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-5247	
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: ROOSEVELT	
8. WELL NAME and NUMBER: ROOSEVELT U 20-2	
9. API NUMBER: 43047314220000	
9. FIELD and POOL or WILDCAT: BLUEBELL	
9. STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/25/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ATTACHED PLEASE FIND THE PROCEDURES AND CEMENT TICKETS FOR THE PLUGGING OF THIS WELL THAT TOOK PLACE 7/21-25/14. RESEEDING WILL TAKE PLACE IN THE FALL AND THE EQUIPMENT/FLOWLINES HAVE BEEN REMOVED

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
 July 31, 2014

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 7/31/2014	

M



PERFORMANCE PROFESSIONALS™

P.O. Box 827 • Vernal, UT 84078
Phone: (435) 789-1735

8093

Date 7/22, 20 14

For Barrett Address _____

Lease Roosevelt Unit 20-2 Rig No. Nebers

CODE	DESCRIPTION	UNIT	AMOUNT	
1	mileage Pump truck	80 mi	6 05	484 -
	mileage crew truck	240 mi	3 70	888 -
	Pump Charge (7-22) 7597'	1 ea		7439 -
	Pump Charge (7-23) 4641'	1 ea		5408 -
	Pump Charge (7-24) 3627'	1 ea		4898 -
	Additional hours	2 hrs	722 00	1444 -
2	Premium Glass G Cement	556 sks	30 00	16680 -
	Calcium Chloride	4 sks	157 00	628 -
	Sugar	200 lbs	3 00	600 -
	Blending	556 sks	3 45	1918 20
	Delivery 52264 lbs	1046 1/2 mi	2 15	2248 90
	16480 PA			
	800.010			
	Subtotal			412636 10
	Less Discount			17054 44
	Total			25581 66
	Tax			
	TOTAL INVOICE			

Operator Math Macturk Accepted and approved by _____



P.O. Box 827 • Vernal, UT 84078
Phone: (435) 789-1735

7512

JOB SUMMARY REPORT

Customer <u>Barrett</u>			Date <u>7-22-14</u>		Ticket Number	
Lease & Well Name <u>Roosevelt Unit 20-2</u>			Sec.	Twp.	Range	County <u>Uintah</u>
Job Type <u>PEA</u>			Drilling Contractor <u>Nabors</u>			
Surface CSG Size <u>10 3/4</u>	Wt./Grade <u>40.5</u>	Thread	Depth From <u>0</u>	To <u>2500</u>		
Inter CSG Size	Wt./Grade	Thread	Depth From	To		
Prod. CSG Size <u>7"</u>	Wt./Grade <u>26</u>	Thread <u>5rd</u>	Depth From <u>0</u>	To <u>+ 7600'</u>		
Liner CSG Size	Wt./Grade	Thread	Depth From	To		
TBG or D.P. Size <u>2 7/8</u>	Wt./Grade <u>6.5</u>	Thread	Depth From <u>0</u>	To <u>7597</u>		

SKS	Materials Furnished	Slurry Wt. P.P.G.	Slurry Yield FT ³	Water Gal./Sk.
<u>270</u>	<u>100% Cmt, Neat</u>	<u>15.8</u>	<u>1.15</u>	<u>5</u>
<u>286</u>	<u>100% Cmt, 2% Cacl²</u>	<u>15.8</u>	<u>1.15</u>	<u>5</u>

Float Equipment —

Equipment & Personnel Matt 1173, Brandon 69, Cory 65-68

Notes

#1/ Retainer Set @ 7597', 40skts below, 30skts left on top

#2/ Retainer Set @ 4641', 50skts below, 30skts left on top

- ~~skts~~ tagged @ 4621' / Set Plug on top @ 4614-44100, 40 skts, 8.2 bbls

- tagged @ 4516'

#3/ Retainer Set @ 3627', 50 skts below, 30skts left on top

#4/ Retainer Set @ ~~2480~~ 2480, 100skts below, 30skts left on top

#5/ Perf @ 300' Pumped 32 bbls, 156 skts Cmt to surface



P.O. Box 827 • Vernal, UT 84078
Phone: (435) 789-1735

N 7510

For Barrett Date 7-22-14, 20
Lease Roosevelt Unit 20-2 Rig No. Nobors

JOB LOG

TIME	DESCRIPTION	RATE	PSI	VOLUME
15:30	On Location, Rig up, Safety meeting			
#1 16:38	Start H2O to Get Inj. Rate	.25	950	0
	End	.75	1100	4
17:04	Start Curt @ 15.8 lb/gal 70 sks	.75	1100	0
	End			14.3
17:20	Start Disp	2.0	1000	0
	Rate, Pressure	2.5	1100	20
17:38	End / Sting out / P.O.H.	1.0	1100	37.9
	30 sks left on top of Retainer			
<hr/>				
7-23-14				
10:00	On Location			
#2 12:41	Start H2O to Get Inj. Rate	1.5	450	0
	End			3
12:55	Start Curt @ 15.8 lb/gal 80 sks	2.0	500	0
	End			16.3
13:02	Start Disp	2.5	10	0
	End / Sting out / P.O.H. / Wait to tag Curt	2.3	5	20.8
	30 sks left on top of Retainer			
	Curt tagged @ 4621'			
	E.O.T. 4614			
17:57	Start H2O (Caught circ 2 bb's gone)	2.0	190	0
	End			3
17:02	Start Curt @ 19.8 lb/gal 40 sks	2.0	260	0
	End			8.2
	Start Disp	2.0	5	0
17:16	End	2.1	350	25.4
<hr/>				
	Continue Next Page			

Operator W. Matt Accepted and approved by _____



PERFORMANCE PROFESSIONALS™

P.O. Box 827 • Vernal, UT 84078

Phone: (435) 789-1735

M 7511

Date 7-24, 20 14For BarrettLease Roosevelt Unit 20-2Rig No. Nabors

JOB LOG

TIME	DESCRIPTION	RATE	PSI	VOLUME
08:30	On Location, Rig up, Safety meeting			
#3	Retainer Set @ 3627'			
1139	Start H ₂ O to Get Inj. Rate	2.5	10	0
	End	2.5	250	7
1147	Start Cmt @ 15.8 ¹ / ₂ gal 80 sks	1.5	150	0
	End			16.3
1154	Start Disp	2.5	10	0
	End / 30 sks left on top of Retainer	2.5	10	14.9
	Sting Out, P.O.H.			
#4	Retainer Set @ 2480			
1448	Start H ₂ O to Get Inj. Rate	3.0	250	0
	End			3
1500	Start Cmt @ 15.8 ¹ / ₂ gal 2% Cacl ₂ 130 sks	2.5	200	0
	End			26.6
1511	Start Disp	2.8	10	0
	End / 30 sks left on top of Retainer	2.8	10	10
	Sting Out, P.O.H.			
#5	Perf Casing @ 300'			
1638	Start H ₂ O	1.5	200	0
	End / Circ @ 36 hrs gone			4
1646	Start Cmt @ 15.8 ¹ / ₂ gal 2% Cacl ₂ 156 sks	2.2	500	0
	Cmt Returns			27
	End	2.2	500	32

Operator Matt Mortensen

Accepted and approved by _____

**RU 20-2 6/11/2014 09:17 - 6/12/2014 09:17**

API 43-047-31422	State/Province Utah	County Uinta	Field Name Bluebell	Well Status TEMPORARILY ABANDONED	Total Depth (ftKB)	Primary Job Type Abandon Well
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	

RU 20-2 7/21/2014 06:00 - 7/22/2014 06:00

API 43-047-31422	State/Province Utah	County Uinta	Field Name Bluebell	Well Status TEMPORARILY ABANDONED	Total Depth (ftKB)	Primary Job Type Abandon Well
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	CTRL	Crew Travel	Crew travel and safety meeting. wellhead pr 0 psi.	
07:00	1.50	08:30	SRIG	Rig Up/Down	Rig up rig and spot equipment.	
08:30	4.00	12:30	BOPI	Install BOP's	Nipple down wellhead and install bop. Rig up floor and tbg tools. rotate tbg, came free. run lines to circulate well.	
12:30	1.00	13:30	HOIL	Hot Oil Well	Circulate down tbg with hot water to clean up oil in well.	
13:30	3.50	17:00	PULT	Pull Tubing	Tally out of the hole with 141 jts of tbg and lay down jet pump and packer. Packer at 4505'	
17:00	1.50	18:30	RUTB	Run Tubing	Pick up bit and scraper and run in the hole with tbg to 4489' shut well in for night.	
18:30	1.00	19:30	LOCL	Lock Wellhead & Secure	Lock and secure well. Crew travel	

RU 20-2 7/22/2014 06:00 - 7/23/2014 06:00

API 43-047-31422	State/Province Utah	County Uinta	Field Name Bluebell	Well Status TEMPORARILY ABANDONED	Total Depth (ftKB)	Primary Job Type Abandon Well
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	CTRL	Crew Travel	Crew travel, Safety meeting. Wellhead pr 0 psi.	
07:00	5.00	12:00	RUTB	Run Tubing	Talley tbg on rack and run in the hole to 7633'. hook up hot oil truck and circulate with hot water to clean oil out of csg. Displace hole with inhibited water.	
12:00	2.00	14:00	PULT	Pull Tubing	Pull tbg out of the hole and lay down bit and scraper.	
14:00	2.50	16:30	RUTB	Run Tubing	Make up retainer on tbg and run in the hole. set retainer at 7601'.	
16:30	1.50	18:00	CEMT	Cement Squeeze	Rig up cementers and pump 70 sacks of glass g cement, squeezed 40 sacks under retainer, dumped 30 sacks on top.	
18:00	1.00	19:00	PULT	Pull Tubing	unsting from retainer and lay down 51 jts of tbg. shut well in for night.	
19:00	1.00	20:00	LOCL	Lock Wellhead & Secure	Shut well in for night. crew travel	

RU 20-2 7/23/2014 06:00 - 7/24/2014 06:00

API 43-047-31422	State/Province Utah	County Uinta	Field Name Bluebell	Well Status TEMPORARILY ABANDONED	Total Depth (ftKB)	Primary Job Type Abandon Well
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	CTRL	Crew Travel	Crew travel, safety meeting. wellhead pr 0 psi.	
07:00	2.50	09:30	PULT	Pull Tubing	Layed down remaining 43 jts of tbg, total of 93. pull 73 stands and lay down plug setting tool.	
09:30	1.00	10:30	PFRT	Perforating	Rig up perforators and shoot holes at 4700'. Rig down wireline.	
10:30	1.00	11:30	DTIM	Downtime	Close blind rams and repair seals on pipe rams.	
11:30	1.50	13:00	RUTB	Run Tubing	Make up 7" plug and run in the hole with tbg. Set plug at 4641'. and rig up cementers.	
13:00	4.00	17:00	CEMT	Cement Squeeze	Mix and pump 80 sacks of class G cement. pump 50 sacks thru retainer and leave 30 sacks on top. Well circulated during job, indicating a hole in csg above retainer. Pull 15 stands and shut well in. wait on cement.	
17:00	1.00	18:00	CEMT	Cement Squeeze	Run in the hole and tag cement at 4621', 20' above retainer. Rig up cementers and pump 40 sacks class G cement on top of plug. Good circulation during job.	
18:00	1.00	19:00	PULT	Pull Tubing	Pull 15 stands and circulated with inhibited water. Shut well in for night.	
19:00	1.00	20:00	LOCL	Lock Wellhead & Secure	Lock and secure wellhead. Crew travel.	

RU 20-2 7/24/2014 06:00 - 7/25/2014 06:00

API 43-047-31422	State/Province Utah	County Uinta	Field Name Bluebell	Well Status TEMPORARILY ABANDONED	Total Depth (ftKB)	Primary Job Type Abandon Well
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	Crew Travel, safety meeting. wellhead pr 0 psi
07:00	1.00	08:00	RUTB	Run Tubing	Run in the hole and tag cement at 4485'. Pull 2 stands and pressure test csg. pump into hole at 300 psi.
08:00	1.50	09:30	PULT	Pull Tubing	Lay down 33 jts tbg and pull out of the hole. lay down plug setting tool and rig up perforators.
09:30	0.50	10:00	PFRT	Perforating	Perforate 4 holes at 3660'. rig down wireline.
10:00	1.50	11:30	RUTB	Run Tubing	Make up 7" cement retainer and run in the hole with tbg. set retainer at 3627. Rig up cementers.
11:30	0.50	12:00	CEMT	Cement Squeeze	Mix and pump 80 sacks of class G cement. pump 50 sacks below and 30 sacks above retainer. had returns up 7" csg and surface csg. shut in 7" during cement job. rig down cementers.
12:00	1.00	13:00	PULT	Pull Tubing	Unsting from retainer and lay down 33 jts tbg. pull remaining tbg to derrick.
13:00	0.50	13:30	PFRT	Perforating	Rig up wireline and perforate at 2550'. rig down wireline
13:30	1.50	15:00	RUTB	Run Tubing	Make up retainer and run in the hole with tbg. set retainer at 2484' and rig up cementers.
15:00	0.50	15:30	CEMT	Cement Squeeze	Mix and pump 130 sacks of class G cement, 2% cacl2. pump 100 sacks below retainer and 30 sacks above. Rig down cementers.
15:30	0.75	16:15	PULT	Pull Tubing	Lay down remaining tbg on racks. rig up perforators.
16:15	0.25	16:30	PFRT	Perforating	Perforate holes at 300' with csg punch. Rig down wireline.
16:30	0.50	17:00	CEMT	Cement Squeeze	Rig up cementers and pump 156 sacks class G with 1% cacl2 down 7" and up 10 3/4". good circulation, cement to surface. Rig down cementers.
17:00	2.00	19:00	SRIG	Rig Up/Down	Rig down rig and leave on location. Crew travel.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-5247
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		7. UNIT or CA AGREEMENT NAME: ROOSEVELT
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: ROOSEVELT U 20-2
2. NAME OF OPERATOR: BILL BARRETT CORP		9. API NUMBER: 43047314220000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext	9. FIELD and POOL or WILDCAT: BLUEBELL
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0242 FSL 2457 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 17 Township: 01.0S Range: 01.0E Meridian: U		COUNTY: UINTAH
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/3/2014 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input checked="" type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
This reclamation on this plugged well location has been assumed by the landowner. BBC requested this well be released as responsibility has been assumed by landowner (see attached).		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 02, 2015		
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A		DATE 9/14/2015



Uintah Basin Operations
1820 West Hwy 40
Roosevelt, Ut 84066

October 3, 2014

Lew E. Hackford
HCR Box 20
Roosevelt, UT 84066-9301

Re: Compensation for disposal of trees from plugged and abandoned RU#20-2 well location

By this Agreement effective October 3, 2012, Lew E. Hackford agrees to accept full responsibility for the disposal of the trees, brush and other vegetative matter removed from the plugged and abandoned RU#20-2 well site, in accordance with all Federal, State and local laws. Further Lew E. Hackford agrees to hold harmless and fully indemnify Bill Barrett Corporation for any damages whatsoever, arising from the disposal of said vegetation. In exchange for this disposal of vegetation, BBC agrees to provide the following items to Lew E. Hackford, FOB the Bill Barrett Corporation field office at 1820 W. Hwy 40, Roosevelt, Utah.

- 105 joints of used 2 7/8" tubing (valued at \$35.00 per joint)
- 35 joints of used 2 3/8" tubing (valued at \$25.00 per joint)

Accepted and agreed to:

By: Lew E. Hackford 10/14/14
 Lew E. Hackford Date

By: [Signature] 10-9-14
 Kary Eldredge Date
 Bill Barrett Corporation

Sundry Number: 66114 API Well Number: 43047314220000