

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-101
June 16, 2008

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NOV 18 2010

HOBBSOCD

Oil Conservation Division

1220 S. St. Francis Dr.

Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

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

¹ Operator Name and Address Occidental Permian Ltd. P.O. Box 4294, Houston, TX 77210-4294		² OGRID Number 157984
⁴ Property Code 19552	⁵ Property Name South Hobbs (GSA) Unit	³ API Number 30- 025-39955
⁹ Proposed Pool 1 Hobbs; Grayburg - San Andres		⁶ Well No. 248
¹⁰ Proposed Pool 2		

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
D	9	19-S	38-E		125	North	455	West	Lea

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
M	4	19-S	38-E		120	South	90	West	Lea

Additional Well Location

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3601.7' GL
¹⁶ Multiple No	¹⁷ Proposed Depth 5370'	¹⁸ Formation San Andres	¹⁹ Contractor H&P	²⁰ Spud Date 12/1/10

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12-1/4	9-5/8	36	1525	670	Surface
8-3/4	5-1/2	17	5370	1290	Surface

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

**Permit Expires 2 Years From Approved
Date Unless Drilling Underway**

See Attached

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

Signature: Mark Stephens

Printed name: Mark Stephens

Title: Regulatory Compliance Analyst

E-mail Address: Mark.Stephens@oxy.com

Date: 11/17/10

Phone: (713) 366-5158

OIL CONSERVATION DIVISION

Approved by:

Title:

PETROLEUM ENGINEER

Approval Date: NOV 23 2010

Expiration Date:

Conditions of Approval Attached ☐

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease- 4 Copies
Fee Lease- 3 Copies
☐ AMENDED REPORT

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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-39955	Pool Code 31920	Pool Name Hobbs; Grayburg-San Andres
Property Code 19552	Property Name SOUTH HOBBS G/SA UNIT	Well Number 248
OGRID No. 157984	Operator Name OCCIDENTAL PERMIAN LTD.	Elevation 3601.7'

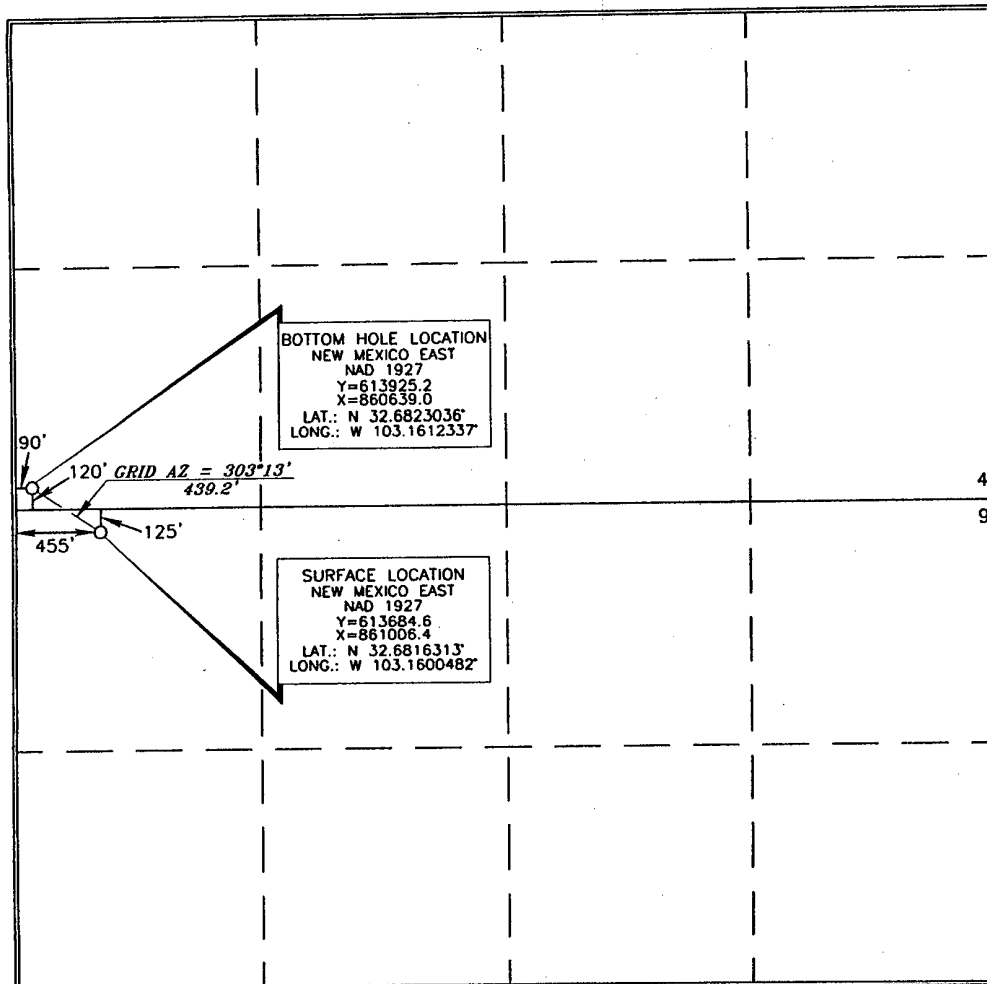
Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	9	19 SOUTH	38 EAST, N.M.P.M.		125'	NORTH	455'	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	4	19 SOUTH	38 EAST, N.M.P.M.		120'	SOUTH	90'	WEST	LEA
Dedicated Acres 40		Joint or Infill	Consolidation Code	Order No.					

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Mark Stephens 11/17/10
Signature Date

Mark Stephens
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

15079
SEPTEMBER 27, 2010
Date of Survey

Signature and Seal of Professional Surveyor

Terry J. Paul 10/14/2010
Certificate Number 15079

WO# 100430WL-a (Rev. B) (KA)

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HOBBSUCD**APD DATA – DRILLING PLAN****OPERATOR NAME / NUMBER: Occidental Permian Limited Partnership 157984****LEASE NAME / NUMBER: South Hobbs G/SA Unit # 248****Federal Lease No: N/A (not Federal land)****STATE: NM COUNTY: Lea****SURFACE LOCATION: Section 9 T19S R38E N.M.P.M. 125 FNL 455 FWL****SL: LAT: 32.6816313 N LONG: 103.1600482 W**
X: 861006.4 Y: 613684.6 NAD: New Mexico East NAD 1927**BOTTOM HOLE LOCATION: Section 4 T19S R38E N.M.P.M. 120 FNL 90 FWL****BHL: LAT: 32.6823036 N LONG: 103.1612337 W**
X: 860639.0 Y: 613925.2 NAD: New Mexico East NAD 1927**C-102 PLAT ELEVATION: 3601.7 ft****RKB ELEV: 3626.7 ft****1. GEOLOGIC NAME OF SURFACE FORMATION****a. Permian****2. ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS**

Formation	Total Vertical Depth Top	Expected Fluids
Red Bed	165	Freshwater
Rustler	1525	Formation Fluid
Top of Salt	1635	Formation Fluid
Base of Salt	2715	Formation Fluid
Basal Grayburg	3950	Formation Fluid
San Andres	4055	Hydrocarbon
Glorietta (TD)	5325	Formation Fluid

A. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

GREATEST PROJECTED TD 5370 MD 5325 TVD OBJECTIVE: San Andres**3. CASING PROGRAM**Surface Casing: 9 5/8" 36# J55 LTC casing set at \pm 1525 ft MD/ 1525 ft TVD in a 12 1/4" hole filled with 9.2 ppg mudProduction Casing: 5 1/2" 17# J55 LTC casing set at \pm 5370 ft MD/ 5325 ft TVD in a 8 3/4" hole filled with 9.5 ppg mud

d. The operator's proposed casing program, including size, grade, weight, type of thread and coupling, the setting depth of each string, and its condition. The operator must include the minimum design criteria, including casing loading assumptions and corresponding safety factors for burst, collapse, and tensions (body yield and joint strength). The operator must also include the lengths and setting depth of each casing when a tapered casing string is proposed. The hole size for each well bore section of hole drilled must be included. Special casing designs such as the use of coiled tubing or expandable casing may necessitate additional information.

4. CEMENT PROGRAM:

Surface Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Surface (TOC: 0' –800')							
Lead: 0' – 460' (120% Excess)	420	460	Halliburton Light Premium Plus 1 % Calcium Chloride - Flake (Accelerator) 5 lbm/sk Gilsonite (Lost Circulation Additive) 0.125 lbm/sk Poly-E-Flake (Lost Circulation Addit)	8.92	12.9	1.79	870 psi
Tail: 460' – 1525' (120% Excess)	250	1065	Premium Plus Cement 94 lbm/sk Premium Plus Cement (Cement) 1 % Calcium Chloride - Flake (Accelerator)	6.36	14.8	1.34	2500 psi

Production Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Production (TOC: 3500') 1st Stage							
Tail: 3500-5325' (125% Excess)	610	1825'	Premium Plus Cement 94 lbm/sk Premium Plus Cement (Cement) 1 % LAP-1 (Low Fluid Loss Control) 0.4 % CFR-3 (Dispersant) 0.25 lbm/sk D-AIR 3000 (Defoamer) 0.2 % HR-800 (Retarder)	6.27	14.8	1.34	1180 psi
<u>DV Tool @ 3500'</u>							
Production (TOC: Surface) 2nd Stage							
Lead: 0' – 3267' (125% Excess)	580	3267'	Interfill C 0.125 lbm/sk Poly-E-Flake (Lost Circulation Addit) 5 lbm/sk Gilsonite (Lost Circulation Additive)	13.36	11.9	2.44	470 psi
Tail: 3267' – 3500' (125%Excess)	100	233'	Premium Plus Cement 94 lbm/sk Premium Plus Cement	6.34	14.8	1.33	1350 psi

e. The estimated amount and types(s) of cement expected to be used in the setting of each casing string. If stage cementing will be used, provide the setting depth of the stage tool(s) and amount and type of cement, including additives, to be used for each stage. Provide the yield of each cement slurry and the expected top of cement, with excess, for each cemented string or stage.

5. PRESSURE CONTROL EQUIPMENT

Surface Section (0 - 1525 ft): Will use a diverter

Production Section (1525 - 5370 ft MD): Will be drilled with a 11" 5M two ram stack w/ 5M annular preventer, & 5M Choke Manifold.

a. All BOP's and associated equipment will be tested to 1200 psi with a third party BOP testing service before drilling out the 13-3/8" casing shoe. Prior to drilling out the 9-5/8" casing shoe, the BOP's and Annular preventer will be tested in accordance with On-shore Order #2.

b. Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. A 2" kill line and 3" choke line will be accommodated on the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly

cock, floor safety valve, choke lines, and choke manifold having a 5000 psi WP rating. Oxy requests that the system be tested at 5,000 psi WP rating.

b. The pipe rams will be functionally tested during each 24 hour period; the blind rams will be functionally tested on each trip out of the hole. These functional tests will be documented on the Daily Driller's Log. Other accessory equipment (BOPE) will include a safety valve and subs as needed to fit all drill strings, and a 2" kill line and 3 " choke line having a 5000 psi WP rating. Oxy requests that the system be tested at 5,000 psi WP rating..

c. Oxy also requests a variance to connect the BOP choke outlet to the choke manifold using a co-flex hose made by *Contitech Rubber Industrial KFT*. It is a 3" ID x 35' flexible hose rated to 10,000 psi working pressure. It has been tested to 15,000 psi and is built to API Spec 16C. Once the flex line is installed it will be tied down with safety clamps. Please see attached certifications.

d. See attached BOP & Choke manifold diagrams.

e. A kelly cock will be in the drill string at all times while drilling.

f. A full opening drill pipe stabbing valve with the appropriate connections will be on the rig floor at all times

6. MUD PROGRAM:

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0-1525 ft	8.4-9.2 ppg	34-36	NC	WBM
1525-3900 ft	9.0-9.2 ppg	28-32	NC	WBM
3900-5370 ft	9.2-9.6 ppg	36-42	<6	WBM

Remarks: Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times.

f. Type and characteristics of the proposed circulating medium or mediums proposed for the drilling of each well bore section, the quantities and types of mud and weighting material to be maintained, and the monitoring equipment to be used on the circulating system. The operator must submit the following information when air or gas drilling is proposed:

- Length, size, and location of the blooie line, including the gas ignition and dust suppression systems;
- Location and capacity of the compressor equipment, including safety devices, describe the distance from the well bore, and location within the drill site; and
- Anticipated amounts, types, and other characteristics as defined in this section, of the stand by mud or kill fluid and associated circulating equipment.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.
- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached. **If Hydrogen Sulfide is encountered , measured amounts and formations will be reported to the REGULATORY AGENCIES**

8. LOGGING / CORING AND TESTING PROGRAM:

- A. Mud Logger: Basal Grayburg to TD
- B. DST's: None
- C. Open Hole Logs as follows: GR / RES / DEN / POR / SON / FMI from Basal Grayburg to TD

9. POTENTIAL HAZARDS:

- A. H2S detection equipment will be in operation before drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with Onshore Order #6.
- B. The maximum bottomhole pressure anticipated is 5000 psi.
- C. No abnormal temperatures or pressures are anticipated. **The highest anticipated pressure gradient is 0.55 psi/ft or 5000 psi.** All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.
- D. No losses are anticipated at this time.
- E. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well.
- F. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS

Road and location construction will begin after Oxy has submitted APD. Anticipated spud date will be as soon as possible after approval and as soon as a rig will be available. Move in operations and drilling is expected to take 25 days. If production casing is run, then an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.

11. COMPANY PERSONNEL:

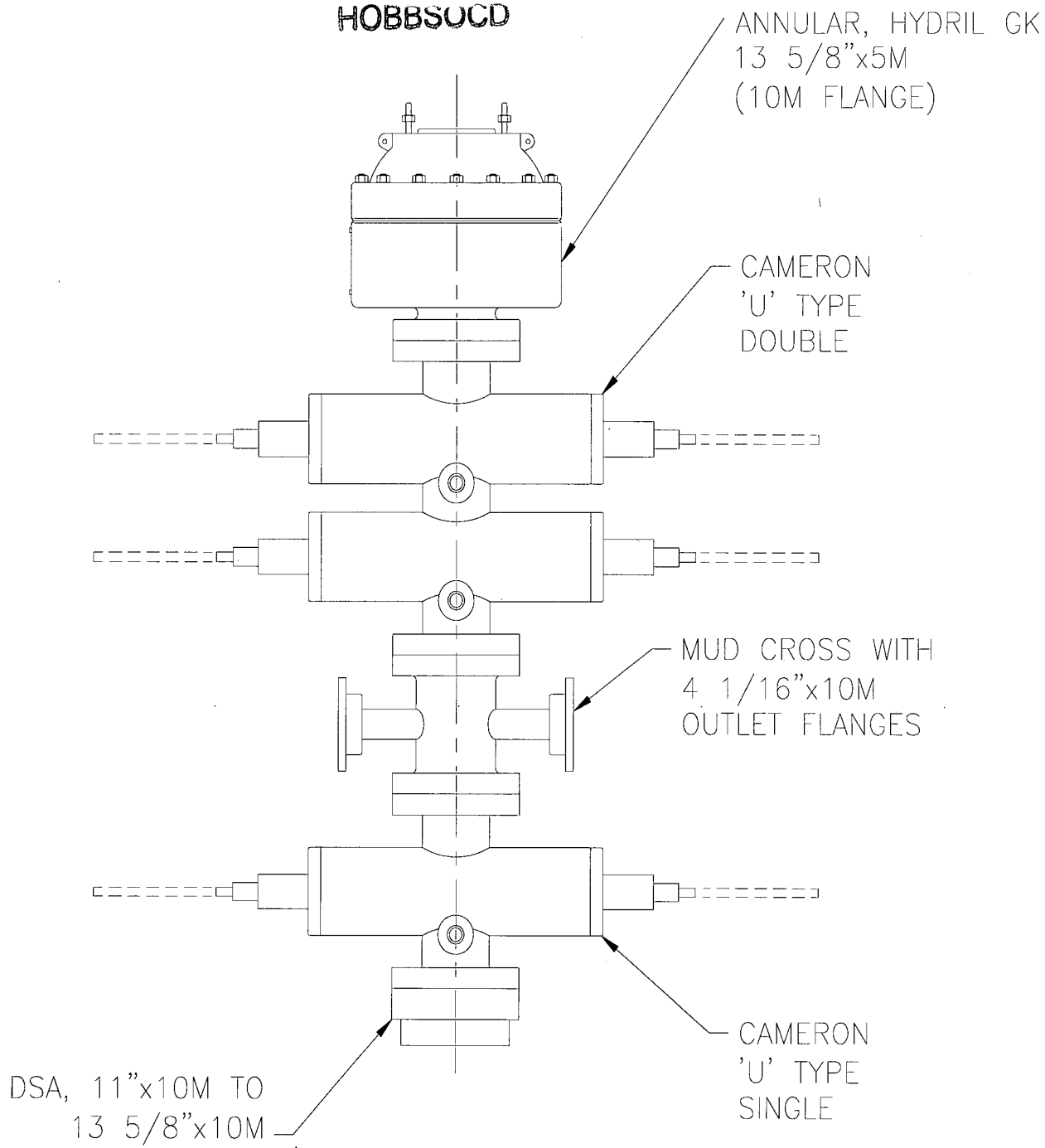
<u>Name</u>	<u>Title</u>	<u>Office Phone</u>	<u>Mobile Phone</u>
Douglas Muir	Drilling Engineer	713-366-5852	713-213-9739
Frank Hutton	Drilling Engineer Supervisor	713-366-5325	713-855-4274
Nelson Emery	Drilling Superintendent	713-215-7537	281-467-2862
Richard Jackson	Drilling Manager	713-215-7235	281-467-6383

BOP Diagram

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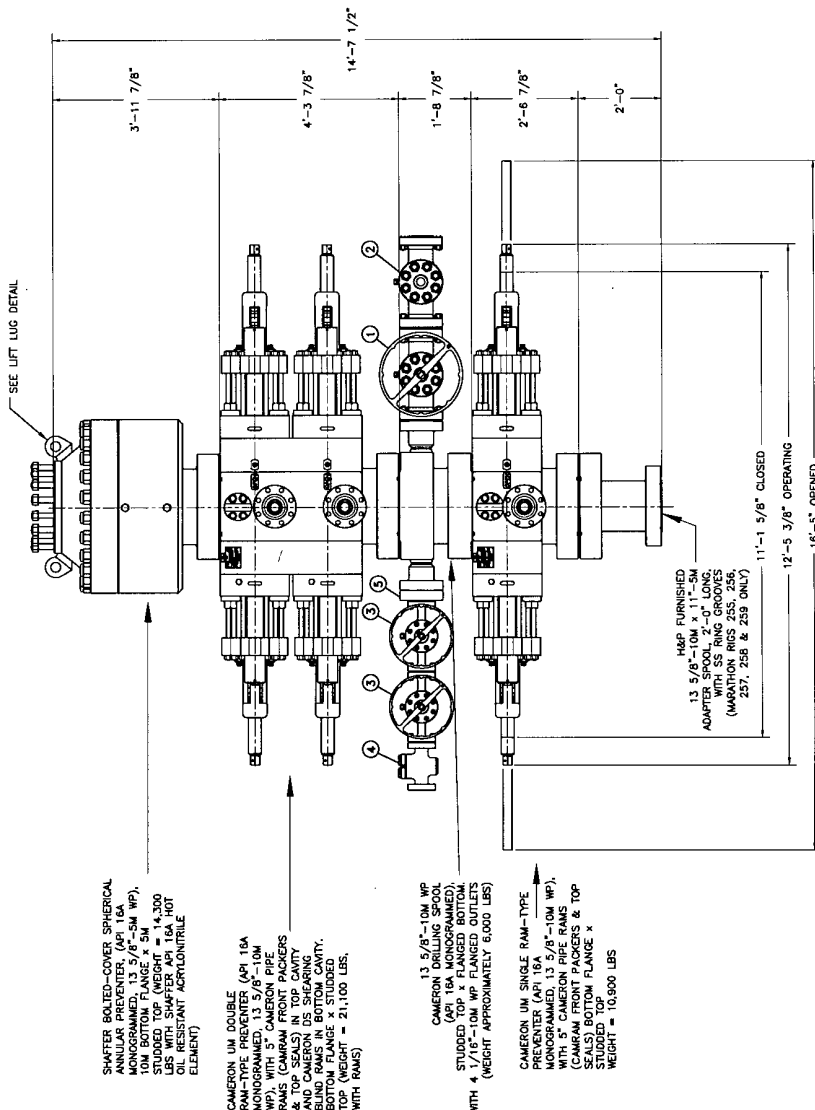
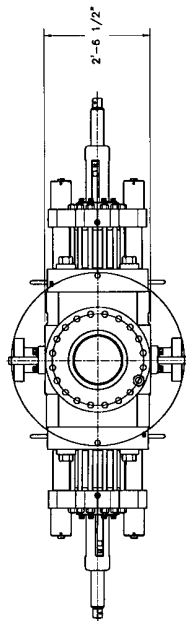
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BOP STACK

- LEGEND
- ① - 4 1/16"-10M FLANGED END GATE VALVE
 - ② - 4 1/16"-10M FLANGED END GATE VALVE
 - ③ - 2 1/16"-10M FLANGED END GATE VALVE
 - ④ - 2 1/16"-10M FLANGED END CHECK VALVE
 - ⑤ - DOUBLE STUDDED ADAPTER



SHAFTER BOLTED-COVER SPHERICAL ANGLE PREVENTER (API 16A MONOGRAMMED, 13 5/8"-10M STUDDED TOP (WEIGHT = 14,300 LBS WITH SHAFTER API 16A HOT RESISTANT ACRYLONITRILE ELEMENT)

CAMERON UN DOUBLE SHAFTE PREVENTER (API 16A MONOGRAMMED, 13 5/8"-10M WP), WITH 5" CAMERON PIPE RAMS (CAMERON FRONT PACKERS & TOP SEALS) IN THE CAVITY BLIND RAMS IN BOTTOM CAVITY. BOTTOM FLANGE X STUDDED TOP (WEIGHT = 21,100 LBS, WITH RAMS)

13 5/8"-10M WP CAMERON UN DOUBLE SHAFTE PREVENTER (API 16A MONOGRAMMED, 13 5/8"-10M WP), WITH 4 1/16"-10M WP FLANGED OUTLETS (WEIGHT APPROXIMATELY 6,000 LBS)

CAMERON UN SINGLE RAM-TYPE PREVENTER (API 16A MONOGRAMMED, 13 5/8"-10M WP), WITH 4 1/16"-10M WP FLANGED OUTLETS (CAMERON FRONT PACKERS & TOP SEALS) BOTTOM FLANGE X STUDDED TOP (WEIGHT = 10,900 LBS)

H&P FURNISHED 13 5/8-10M x 11-5M ADAPTERS, 255, 256, 257, 258 & 259 ONLY (VARIATION RISGS 255, 256, 257, 258 & 259 ONLY)







13 5/8-10M STACK

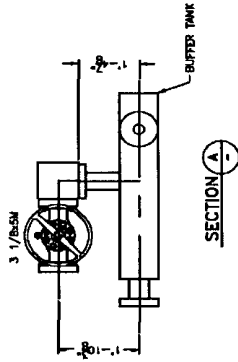
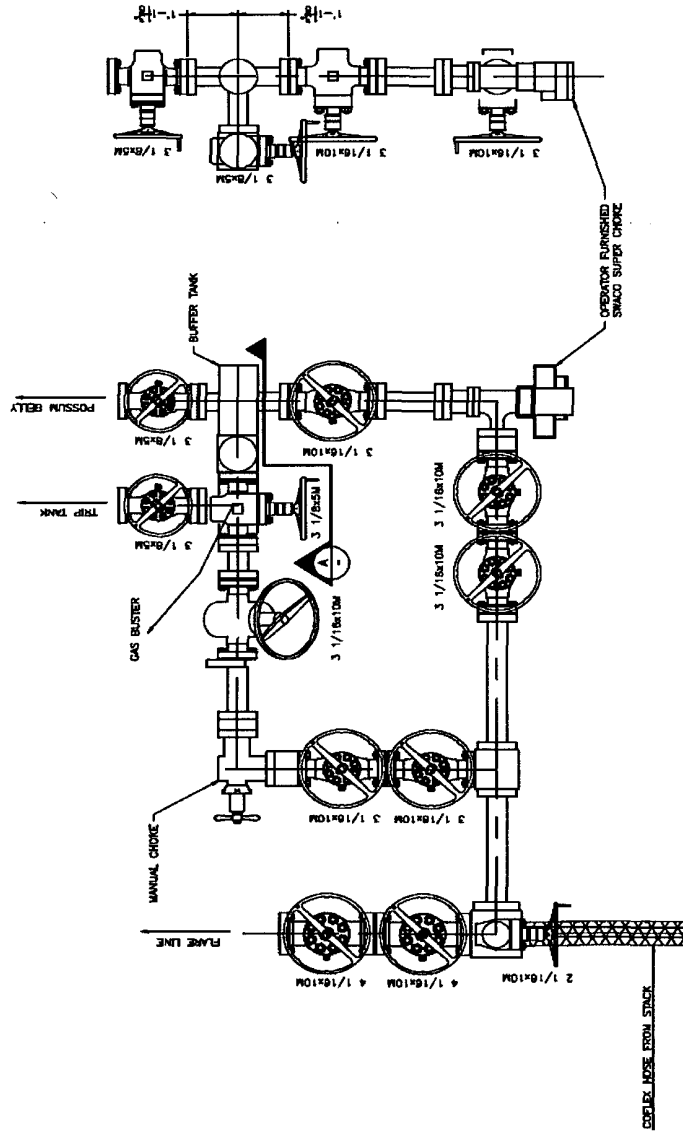
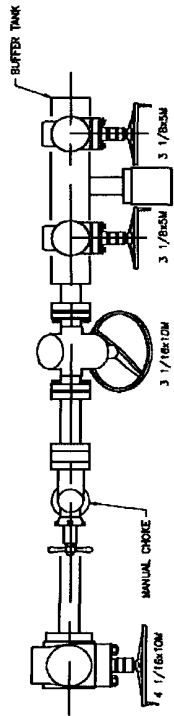
PROPRIETARY
THIS DRAWING AND THE IDEAS AND INFORMATION INCLUDED IN THIS DRAWING ARE PROPRIETARY AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE PRIOR WRITTEN CONSENT OF A QUALIFIED OFFICER OF HELMERICH & PAYNE INT'L DRILLING CO.

ISSUED FOR FABRICATION
December-18-2007
DRAFTSMAN
ENGINEER

API 6A MONOGRAMMED CAMERON CHOKE AND KILL VALVE ASSEMBLIES ARE NOT SHOWN FOR CLARITY
WEIGHTS DO NOT INCLUDE HOSES, ADAPTER SPOOLS OR QUICK CONNECT FITTINGS

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

ENGINEERING APPROVAL		DATE	TITLE	
	12/18/07	ADDED SHEET 03	JAV	
	4-10-07	OPERATION REVISED DOUBLE STUDDED ADAPTER, WELDS 1, 2, 3, 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	DATE	REV
	4-04-07	ADDED TO SPACER ADAPTER SPOOL	MAIL	
	02-07-07	ADDED ADAPTER SPOOL	MAIL	
	06-13-02	CORRECTED BOP STACK	MAIL	
	04-11-02	REVISION INFORMATION	REV	
CUSTOMER H&P		PROJECT: FLEXRIG3	DATE: 6-5-02	
DRAWN: MTS		SCALE: 3/4"=1'	ING. NO.: 210P1-07	
SHEET: 1 OF 1		REV: 1		



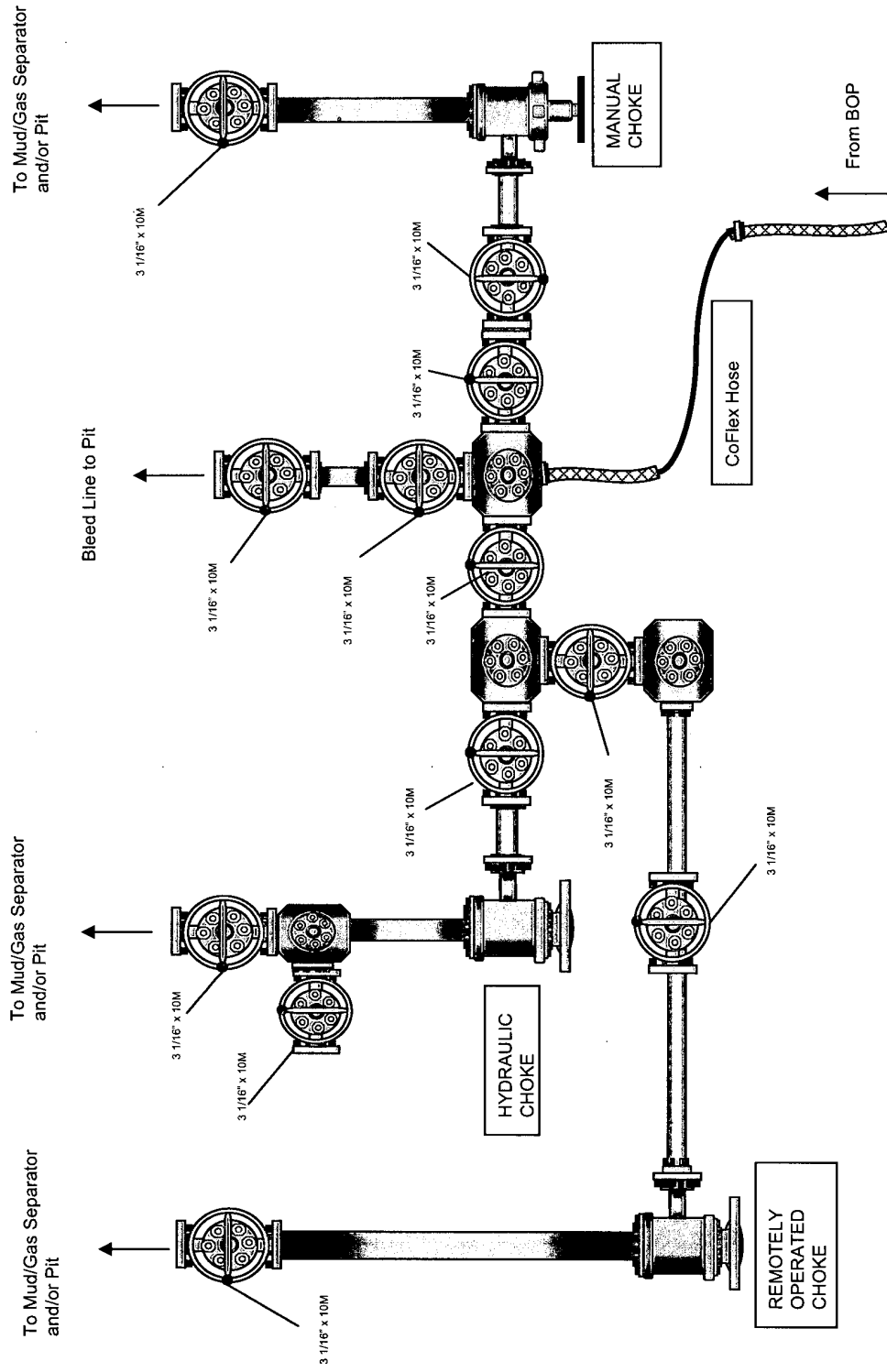
ISSUED FOR
FABRICATION
MARCH 9, 1968
CHARTERED
ENGINEER

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

NO.	DATE	DESCRIPTION	BY	CHKD.
1	10/13/62	ADJUST DIM TO FIELD CONFIRMED DIM	INT	
2	2-25-62	DRWG. MTS		
3	3/4/61	SCALE 3/4"=1'		
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PROPRIETARY
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10M CHOKE MANIFOLD CONFIGURATION





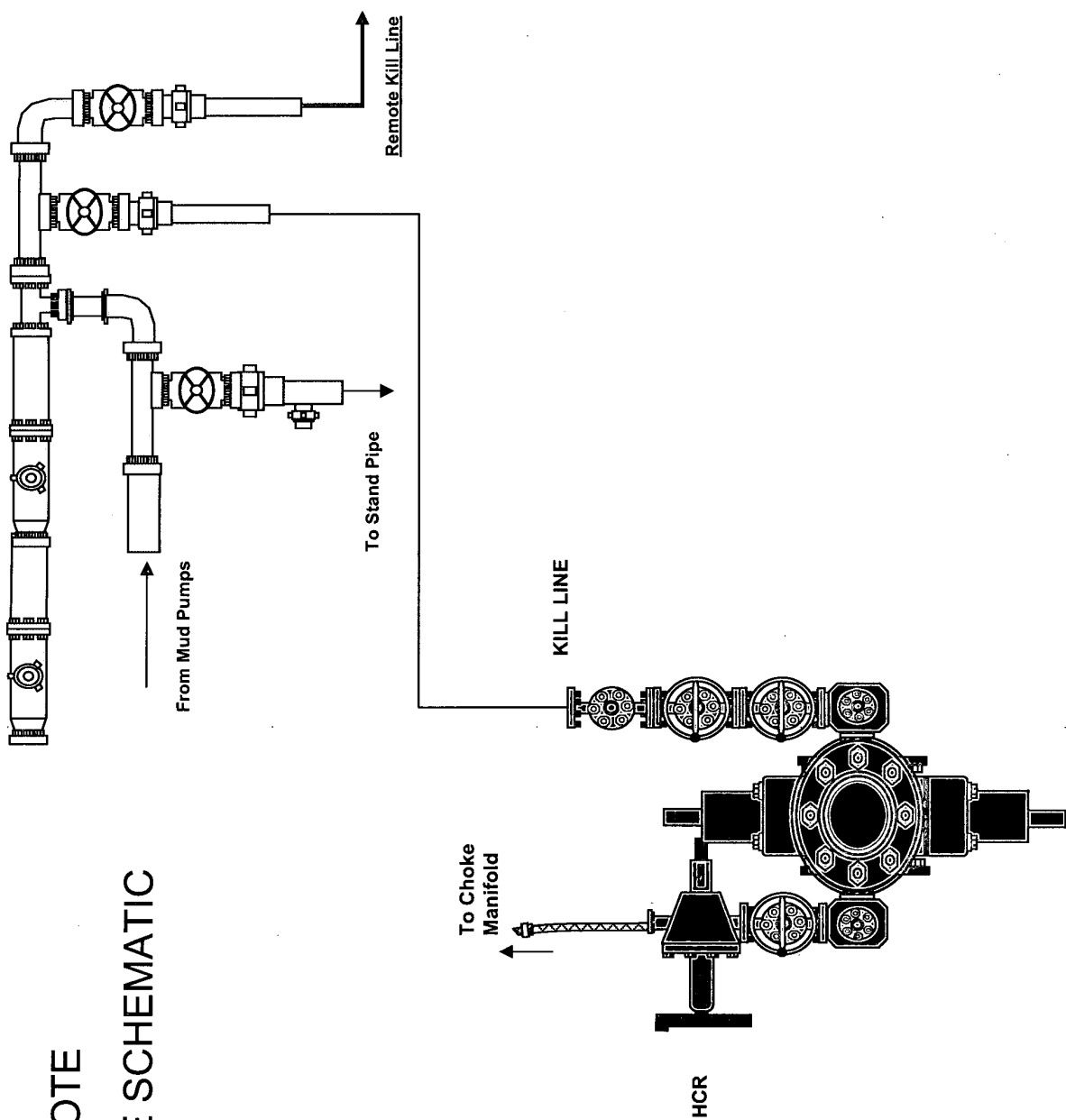
HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

TITLE:		CHOKE LINE SYSTEM FLEXRIG3	
CUSTOMER:			
PROJECT:			
DRAWN:	JBG	DATE:	4-10-07
SCALE:	3/16"=1'	SHEET:	2 OF 2
			210-P1-07
		REV:	A

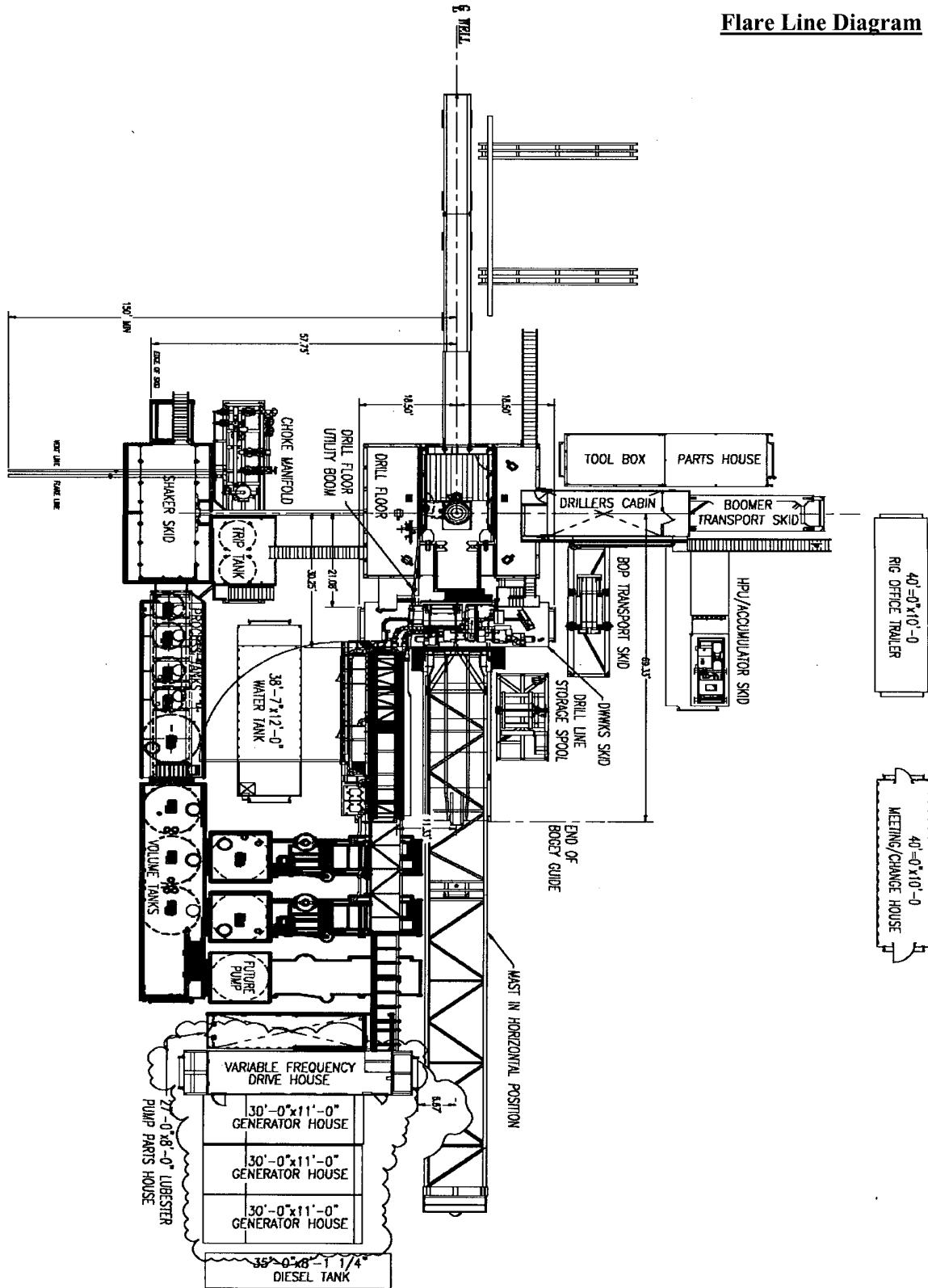
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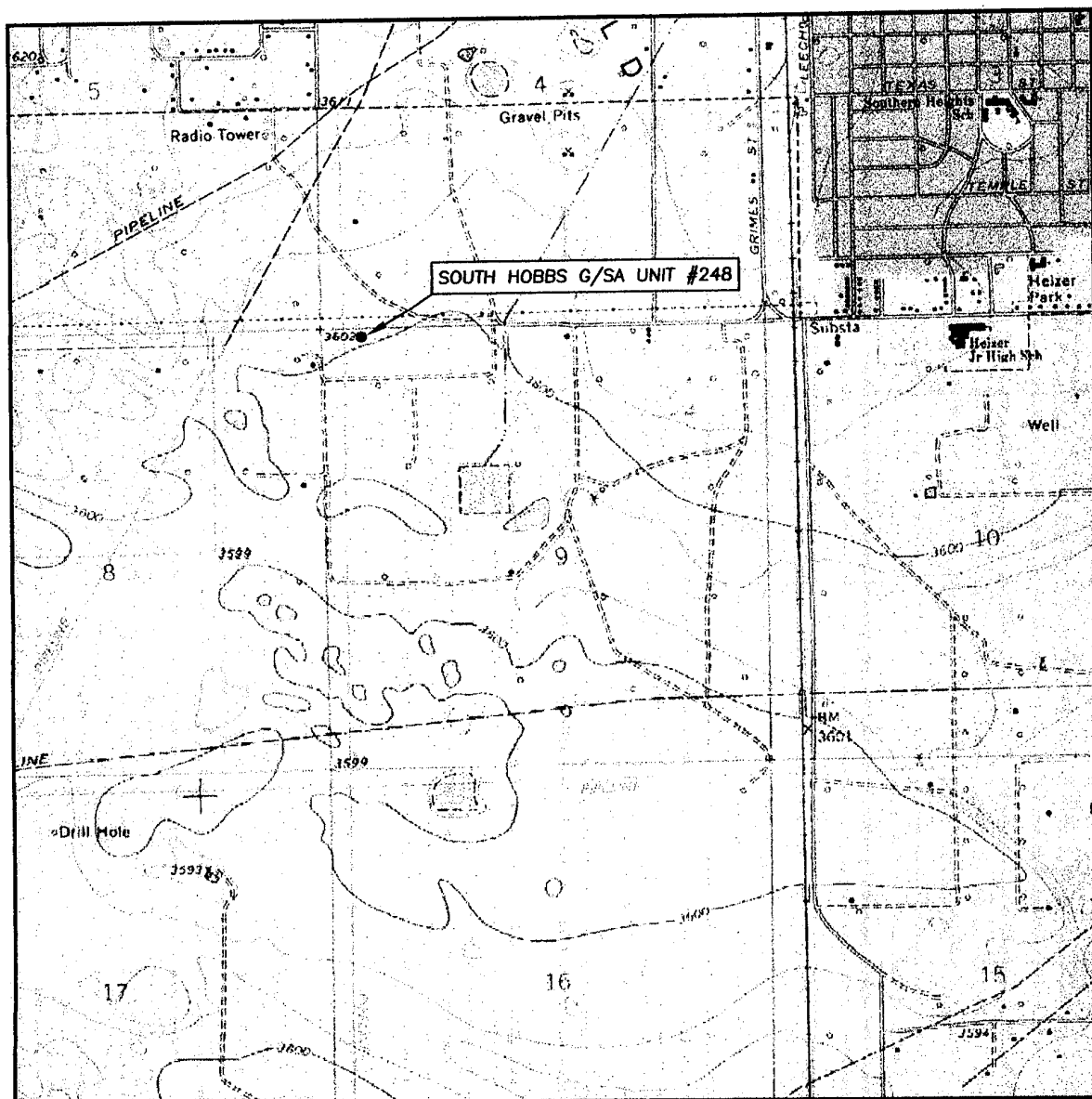
10M REMOTE KILL LINE SCHEMATIC



Flare Line Diagram



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'

SEC. 9 TWP. 19-S RGE. 38-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 125' FNL & 455' FWL

ELEVATION 3601.7'

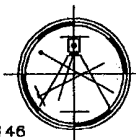
OPERATOR OCCIDENTAL PERMIAN LTD.

LEASE SOUTH HOBBS G/SA UNIT #248

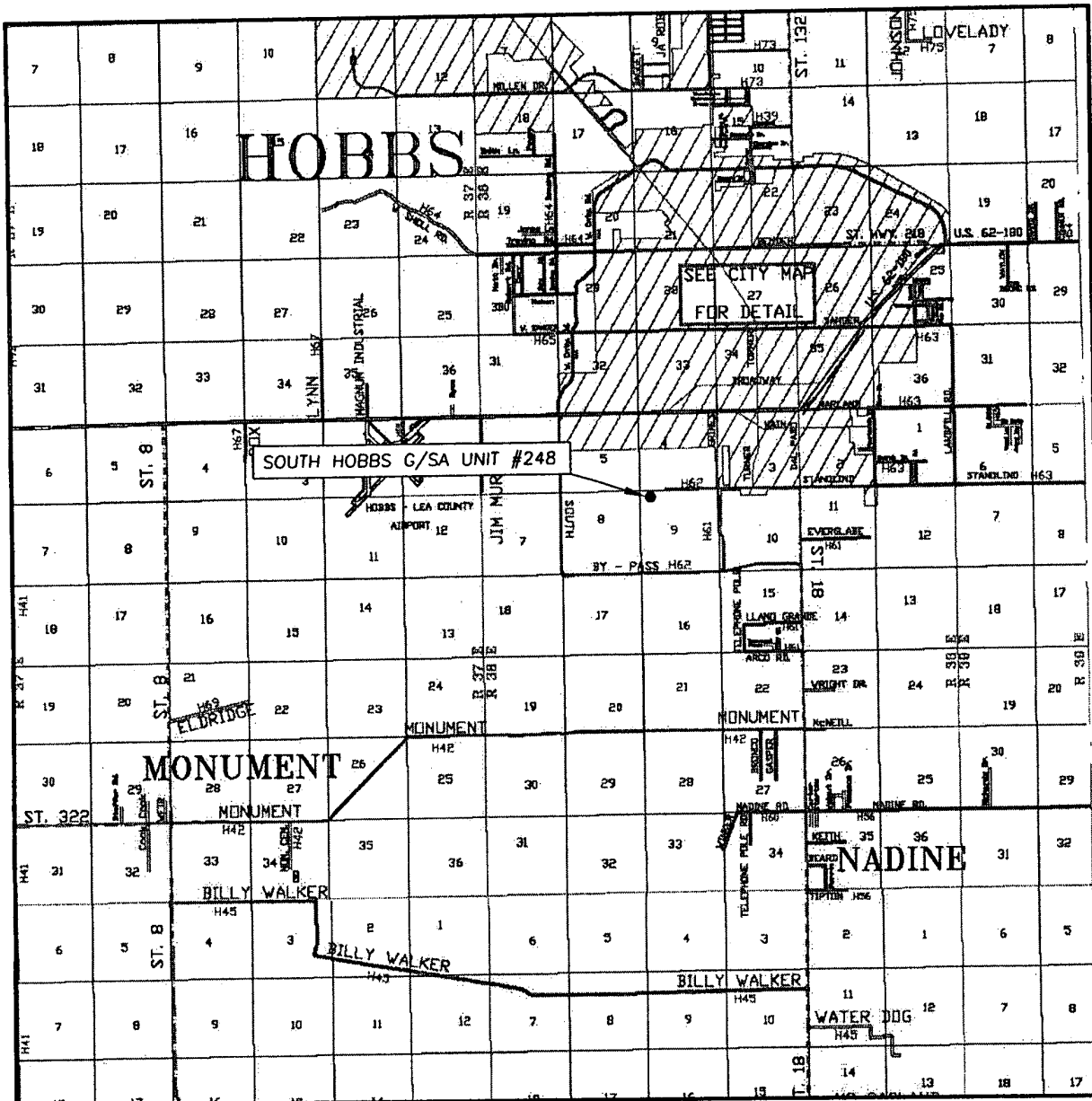
U.S.G.S. TOPOGRAPHIC MAP
HOBBS WEST, N.M.

Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR
HOBBS, NEW MEXICO - 575-393-9146



VICINITY MAP



SEC. 9 TWP. 19-S RGE. 38-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 125' FNL & 455' FWL

ELEVATION 3601.7'

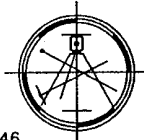
OPERATOR OCCIDENTAL PERMIAN LTD.

LEASE SOUTH HOBBS G/SA UNIT #248

SCALE: 1" = 2 MILES

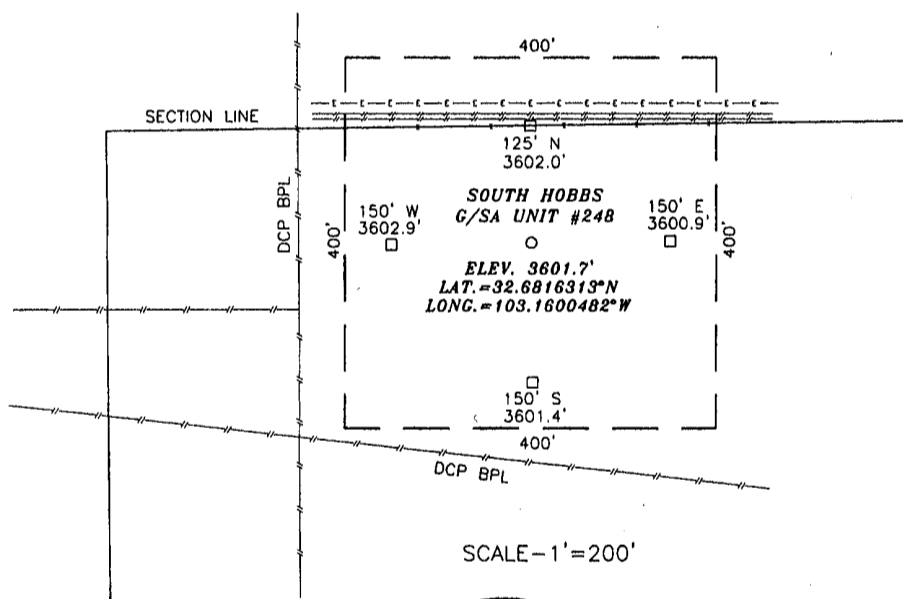
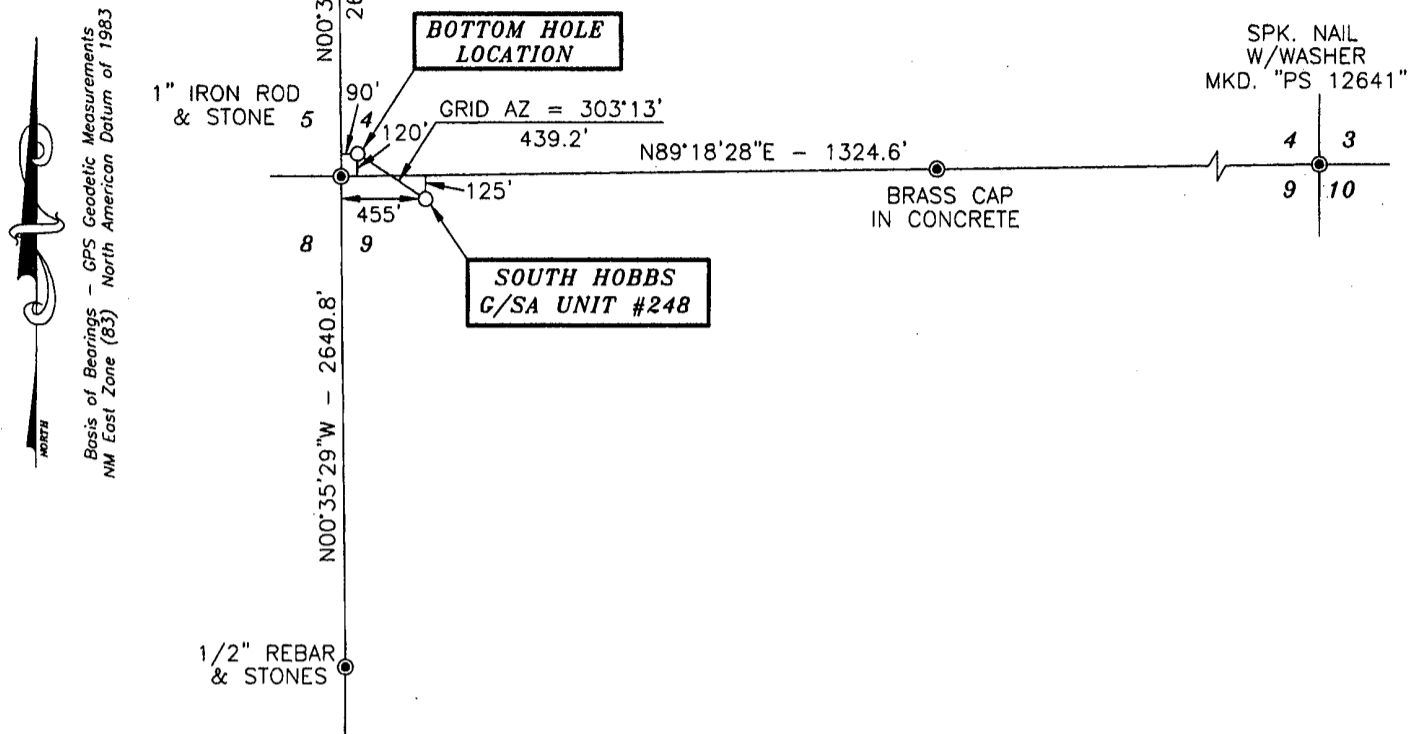
Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR
HOBBS, NEW MEXICO - 575-393-9146



DIRECTIONS BEGINNING AT THE INTERSECTION OF SOUTH GRIMES STREET AND STANOLIND ROAD, GO WEST ON PAVED ROAD FOR 0.6 MILES, TURN LEFT AND GO SOUTH ON CALICHE LEASE ROAD FOR 0.1 MILES, TURN RIGHT AND GO WEST ON CALICHE LEASE ROAD FOR 0.3 MILES, TURN RIGHT ON PROPOSED ROAD AND GO NORTH FOR 0.1 MILES TO LOCATION.

SECTIONS 4 & 9, TOWNSHIP 19 SOUTH, RANGE 38 EAST, N.M.P.M.,
LEA COUNTY
NEW MEXICO



DIRECTIONS:
BEGINNING AT THE INTERSECTION OF SOUTH GRIMES STREET AND STANOLIND ROAD, GO WEST ON PAVED ROAD FOR 0.6 MILES, TURN LEFT AND GO SOUTH ON CALICHE LEASE ROAD FOR 0.1 MILES, TURN RIGHT AND GO WEST ON CALICHE LEASE ROAD FOR 0.3 MILES, TURN RIGHT ON PROPOSED ROAD AND GO NORTH FOR 0.1 MILES TO LOCATION.



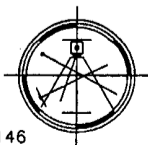
SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

Terry J. Asel 10/14/2010
Terry J. Asel, N.M. R.P.S. No. 15079

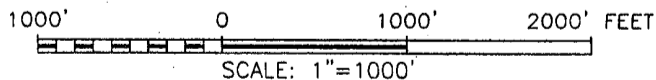
Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR
HOBBS, NEW MEXICO - 575-393-9146



LEGEND

● - DENOTES FOUND MONUMENT AS NOTED



OCCIDENTAL PERMIAN LTD.

SOUTH HOBBS G/SA UNIT #248 LOCATED
AT 125' FNL & 455' FWL IN SECTION 9,
TOWNSHIP 19 SOUTH, RANGE 38 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 09/27/10	Sheet 1 of 1 Sheets
W.O. Number: 100430WL-a (Rev. B)	Drawn By: KA Rev: B
Date: 10/12/10	100430WL-a Scale: 1" = 1000'