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DC-220

Grantsville 8/15/55

W. L. G. 100

W. L. G. 100

August 29, 1955

**APPLICATION FOR DUAL GAS COMPLETION
OF PACIFIC NORTHWEST'S INDIAN "E",
WELL NO. 1, LOCATED IN SECTION 15,
T28N-R3W, RIO ARriba COUNTY, NEW
MEXICO**

Oil and Gas Conservation Commission
State of New Mexico
P. O. Box 871
Santa Fe, New Mexico

W. L. G. 100
W. L. G. 100

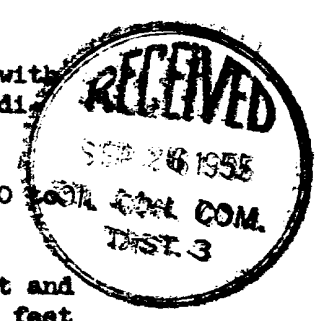
Attention: Mr. W. B. Macey

Gentlemen:

In accordance with your request of August 8, 1955, that we furnish you a resume of all work done on Pacific Northwest's Indian "E", Well No. 1, prior to your issuing a formal order approving the dual completion, the following information is submitted:

Dual completion operations on the well between the Pictured Cliffs and Mesaverde formations were conducted in the following order:

- (1) The open hole Point Lookout section of the Mesaverde was fractured.
- (2) A bridge plug was set at 5970 and the Menefee section of the Mesaverde was perforated from 5812 to 5824 feet and from 5914 to 5968 feet and fractured.
- (3) A bridge plug was set at 5750 feet and the well was perforated from 3934 to 3935 feet and squeezed.
- (4) The well was then perforated at 3790 and cemented, with the top of the cement outside the 5 1/2 inch casing indicated by a temperature survey at 3410 feet.
- (5) The Pictured Cliffs section was perforated from 3810 to 3920 feet and sand-oil fractured.
- (6) The well was cleaned out to total depth of 6069 feet and a Baker Model "B" production packer was set at 5780 feet with the tubing side-door choke at 3944 feet.



August 29, 1955

APPLICATION FOR DUAL GAS COMPLETION
OF PACIFIC NORTHWEST'S INDIAN "H"
WELL NO. 1, LOCATED IN SECTION 15,
T28N-R3W, RIO ARriba COUNTY, NEW
MEXICO

Oil and Gas Conservation Commission
State of New Mexico
P. O. Box 941
Santa Fe, New Mexico

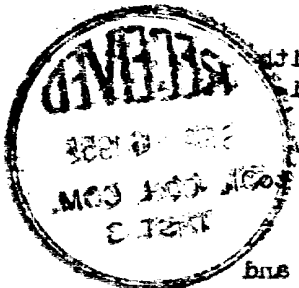
Attention: Mr. W. B. Macey

Gentlemen:

In accordance with your request of August 8, 1955, that we furnish you
a resume of all work done on Pacific Northwest's Indian "H" Well No. 1, prior
to your issuing a formal order approving the dual completion, the following in-
formation is submitted:

Dual completion operations on the well between the Pictured Cliffs and
Mesaverde formations were conducted in the following order:

- (1) The open hole Point Lookout section of the Mesaverde
was fractured.
- (2) A bridge plug was set at 5970 and the Mesaverde section
of the Mesaverde was perforated from 5912 to 5824 feet
and from 5914 to 5908 feet and fractured.
- (3) A bridge plug was set at 5750 feet and the well was per-
forated from 3934 to 3932 feet and squeezed.
- (4) The well was then perforated at 3790 and cemented, with
the top of the cement outside the 2 1/2 inch casing indi-
cated by a temperature survey at 3410 feet.
- (5) The Pictured Cliffs section was perforated from 3810 feet to 3804
feet and sand-oil fractured.
- (6) The well was cleaned out to total depth of 6005 feet and
a Baker Model "D" production packer was set at 5780 feet
with the tubing side-door choke at 3944 feet.



August 29, 1955

The three hour open flow potential for the well on the Mesaverde tubing completion was 2042 MCF per day taken August 26, 1955, and on the Pictured Cliffs annulus completion was 415 MCF per day taken August 26, 1955. Attached for your information is a diagramatic sketch of the dual with pertinent data as completed. Verbal approval to proceed with dual completion operations on this well was received from Mr. McGrath of the U. S. Geological Survey on August 10, 1955.

If any additional information is needed on this well before a formal order approving the dual completion can be issued, please notify us.

Yours very truly,

ORIGINAL SIGNED BY
W. R. JOHNSTON

W. R. Johnston, Manager
Production Operations

LGT:bh
Attachment

cc: U. S. Geological Survey
Farmington, New Mexico

Oil Conservation Commission
Aztec, New Mexico



The three hour open flow potential for the well on the Mesaverta sub-
 ing completion was 2042 MCF per day taken August 28, 1955, and on the Plover
 Cliffs annular completion was 412 MCF per day taken August 28, 1955. Attached
 for your information is a schematic sketch of the dual with pertinent data as
 completed. Verbal approval to proceed with dual completion operations on this
 well was received from Mr. McGrath of the U. S. Geological Survey on August 18,
 1955.

If any additional information is needed on this well before a formal
 order approving the dual completion can be issued, please notify me.

Yours very truly,

W. R. JOHNSTON
 Manager

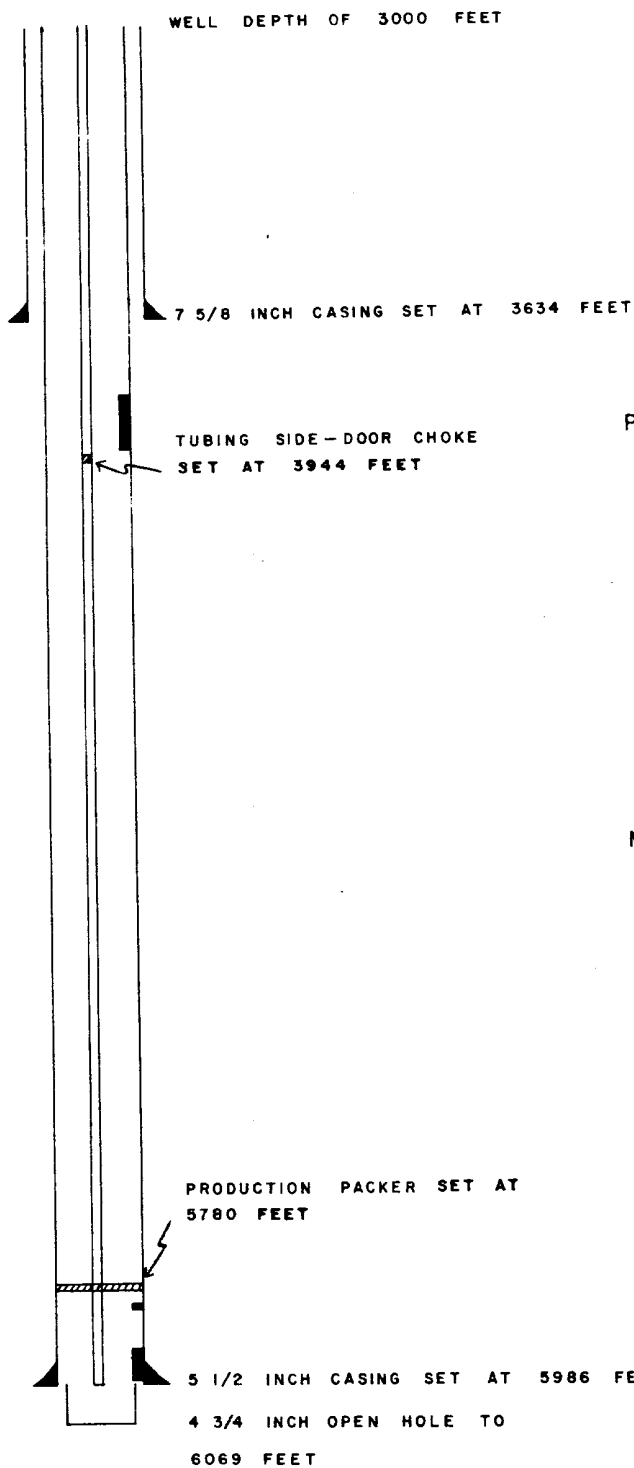
W. R. Johnston, Manager
 Production Operations

Attachment
 10/1/55

cc: U. S. Geological Survey
 Washington, New Mexico

Oil Conservation Commission
 Alamo, New Mexico





DIAGRAMATIC SKETCH OF
DUAL GAS COMPLETION FOR
INDIAN H WELL #1

PICTURED CLIFFS DATA:

TOP OF PICTURED CLIFFS 3622 FEET

BOTTOM OF PICTURED CLIFFS 3936 FEET

PERFORATIONS 3810-3920

MESAVERDE DATA:

TOP OF MESAVERDE 5700 FEET

MESAVERDE TO TOTAL DEPTH OF 6069 FEET

PERFORATIONS 5812-5824

5914-5968



PACIFIC NORTHWEST PIPELINE CORPORATION
ALBUQUERQUE, NEW MEXICO

APPLICATION FOR DUAL GAS COMPLETION
OF INDIAN H WELL #1 IN PICTURED CLIFFS
AND MESAVERDE FORMATIONS

RIO ARriba COUNTY
NEW MEXICO

TRIBAL # 60

Drawn: W. McGAHEY

Vertical Scale 1" = 400'

Appr. L. TRUBY

Date 8-20-55

NOTES, TEXAS

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. 84

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1. The first step in the process of identifying a potential threat to national security is to determine the nature of the threat. This involves a thorough analysis of the threat's source, its objectives, and its potential impact on the United States. The next step is to assess the threat's credibility, which involves evaluating the threat's likelihood of occurring and the potential consequences if it does occur. Finally, the threat must be prioritized based on its severity and the resources available to address it.

[illegible]

The above information was obtained from a review of the records of the Department of Social Services, New York City, and is being furnished to you for your information.

plug would be drilled out and a production packer set at approximately 5750 feet with the intention of producing the Mesaverde formation through the tubing and the Pictured Cliffs formation through the casing-tubing annulus. (5) A side door choke will be placed in the tubing at approximately 3930 feet for the purpose of either producing, at a later date, the Pictured Cliffs through the tubing with a blank choke below the Pictured Cliffs in the tubing or for the purpose of running small tubing and producing the Mesaverde through the small tubing and the Pictured Cliffs, packed off below the choke, through the tubing-tubing annulus.

The above described arrangement will allow Pacific Northwest to test for reserves in two formations in this one well and will allow us, at a later date, the potentiality of producing both formations from the one well. This would, of course, decrease our drilling costs in the area. We are of the opinion that a production packer can be set between zones and shut off communication between formations in this well with this type of completion. As no offset acreage other than Pacific's is involved in the completion of this well, no other operators have been notified of the proposed dual.

We would appreciate your early consideration of this request as there is currently a rig on this location.

Yours very truly,

ORIGINAL SIGNED BY
W. R. JOHNSTON

W. R. Johnston, Manager
PRODUCTION OPERATIONS



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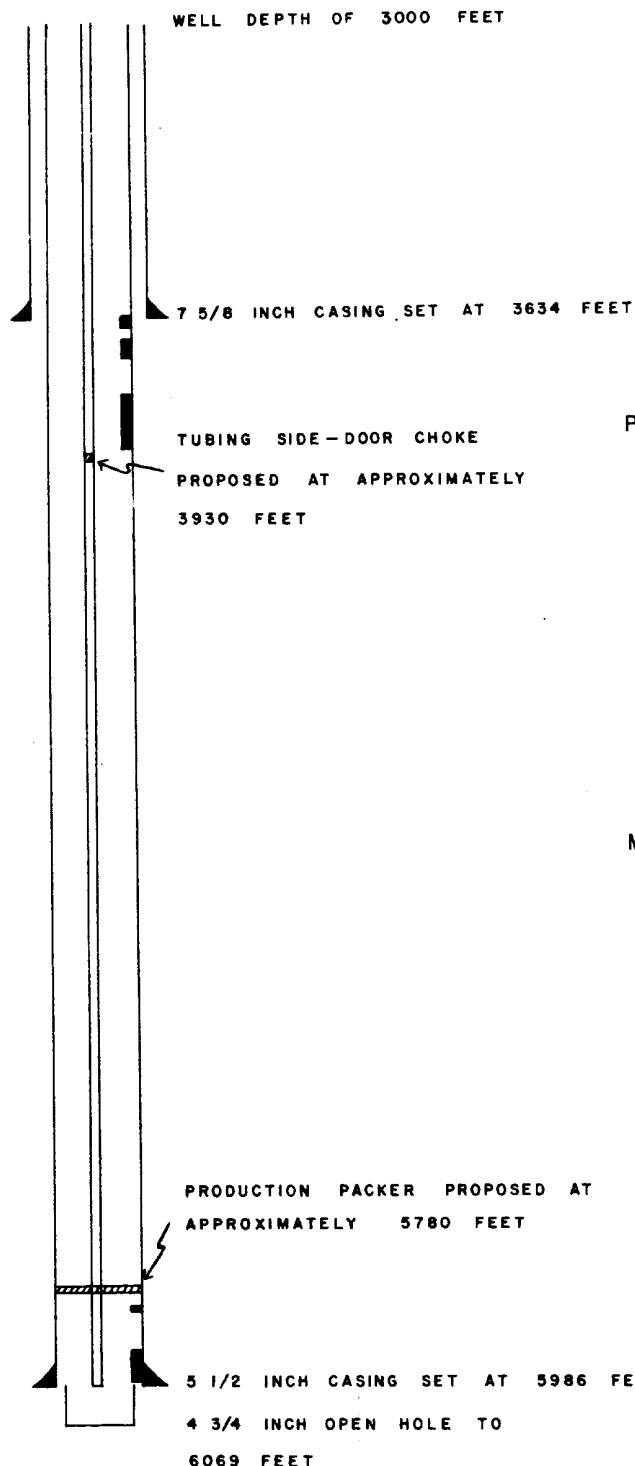
... and to North America (also they started a line to
... and to the ...)

1992-1993

ORIGINAL SIGNED BY
JANUARY 22 1971

REPORT OF THE BOARD OF DIRECTORS
FOR THE YEAR 1999





PICTURED CLIFFS DATA:

| | |
|---------------------------|-----------|
| TOP OF PICTURED CLIFFS | 3625 FEET |
| BOTTOM OF PICTURED CLIFFS | 3936 FEET |
| PROPOSED PERFORATIONS | 3640-3660 |
| | 3694-3722 |
| | 3810-3920 |

MESAVERDE DATA:

| | |
|-----------------------------|-----------|
| TOP OF MESAVERDE | 5700 FEET |
| MESAVERDE TO TOTAL DEPTH OF | 6069 FEET |
| PROPOSED PERFORATIONS | 5812-5824 |



DIAGRAMATIC SKETCH OF PROPOSED
DUAL GAS COMPLETION FOR
INDIAN H WELL #1

PACIFIC NORTHWEST PIPELINE CORPORATION
ALBUQUERQUE, NEW MEXICO

APPLICATION FOR DUAL GAS COMPLETION
OF INDIAN H WELL #1 IN PICTURED CLIFFS
AND MESAVERDE FORMATIONS

RIO ARriba COUNTY
NEW MEXICO

TRIBAL # 60

Drawn: W. McGAHEY
Appr. L. TRUBY

Vertical Scale 1" = 400'
Date 9-4-55